HOLDEN

OWNER'S HANDBOOK

MH SERIES

Owner's Name .....

Address .....

Town .....

State .....Postcode.....

Model Name .....

Reg. No. .....Eng. No. .....

Odometer Reading .....

Date of Purchase.....

17 character I.S.O.V.I.N. .....

12 character Holden Identification Plate number .....

Vehicle Identification Certificate

Selling
Dealer's
Stamp & Signature .....

Change of address/ownership

It may be necessary for General Motors-Holden's Automotive Ltd Aust. Co. No. 006 893 232 (hereinafter Holden's) to contact the owners of Holden vehicles from time to time. To enable this contact, records are maintained of owner's names and addresses.

So we can keep these records up to date, please complete the form on pages 9-32 or 9-34 and forward to Holden's at the address shown on the back of this form if

a) you change your address

b) you have purchased this car from a previous owner.

Part No 92043409
October 1992 (Print 4)

We thank you for choosing Holden's and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

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All information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing. Holden's reserves the right to make changes at any time without notice and without incurring any obligation.

This Handbook was printed on recycled paper.

CONTENTS

The first page of each chapter contains a "chapter index"

Chapter 1 .....**INSTRUMENT PANEL**..... page 1-0

The first page of this chapter illustrates the instrument panel, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.

Chapter 2 .....**BEFORE YOU DRIVE**..... page 2-0

This section covers the other features of your car, not appearing on the instrument panel. Features covered include keys and locks, seat adjustment, seat belts, child restraints, windows, mirrors, park brake etc.

Chapter 3 .....**STARTING AND DRIVING** ..... page 3-0

Please read chapters 1 and 2 to familiarise yourself with your car before proceeding to this section. This explains how to start your engine and the use of automatic and manual transaxles. There are also some precautions and fuel consumption notes.

Chapter 4 .....**ACCIDENTS & EMERGENCIES** ..... page 4-0

The first two pages of this chapter show what to do at the scene of an accident, including giving medical assistance. Following, are some emergency procedures, including wheel changing, starting when the battery is flat, engine overheating, and towing a disabled car.

Chapter 5 .....**WARRANTY, HOLDEN DEALERS, CUSTOMER ASSIST.** ..... page 5-0

This sets out the terms of your warranty, lists the Holden Dealers across Australia and explains what to do if you need Customer Assistance.

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Chapter 6 ..... **WEEKLY CHECKS** ..... page 6-0

As well as taking your car in for a service, there are a few simple checks that the owner must make. These are clearly shown and illustrated. They include checking the oil, water, automatic transaxle fluid, brake and battery fluid levels. It also shows how to top up the washer fluid and check your tyres.

The end of the chapter shows how to replace your car's light bulbs or fuses should the need arise.

Chapter 7 ..... **CLEANING** ..... page 7-0

Listed are the cleaning agents (and their application) that you should use to look after your car.

Chapter 8 ..... **SPECIFICATIONS & EMISSIONS** ..... page 8-0

This lists specifications, capacities and general replacement parts, including oil, coolant and fluids. Also included is information relating to the emission control features fitted to your car.

Chapter 9 ..... **SERVICE/MAINTENANCE SCHEDULE** ..... page 9-0

This shows when your car requires servicing and what is done at each service. Also included are the coupons that are used when you take your car to a Holden Dealer to be serviced.

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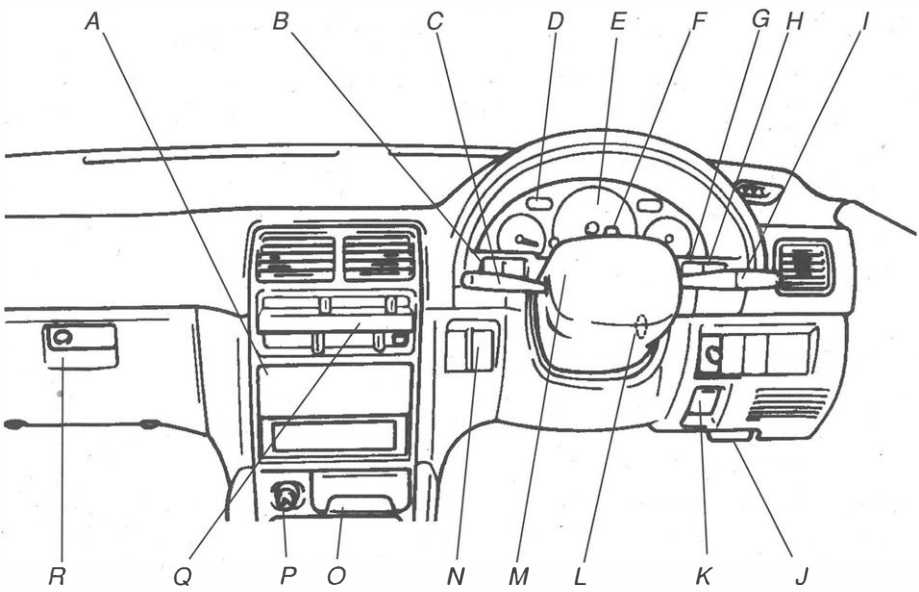
REFUELLING ..... inside rear cover



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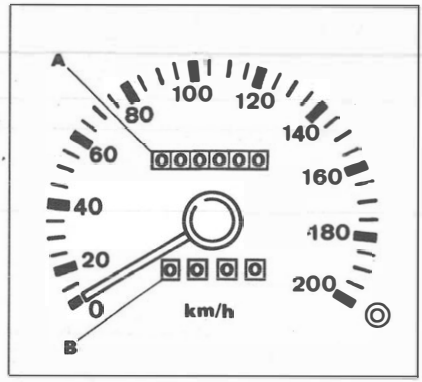
Speedometer

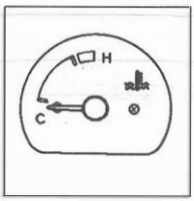


The speedometer gauge indicates speed in kilometres per hour.

The odometer (A) records kilometres travelled since the car was built.

The tripmeter, if fitted (B) records kilometres travelled on a particular trip, or between fuel stops. Push the tripmeter reset knob (beneath the speedometer) to reset the tripmeter reading to zero.

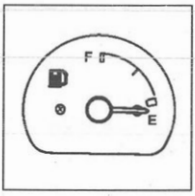
Engine coolant temperature gauge



The temperature gauge indicates the engine coolant temperature, when the ignition is switched to ON.

Overheating is indicated if the needle moves all the way to the H marker. Refer page 4-5 for further instructions.

Fuel gauge



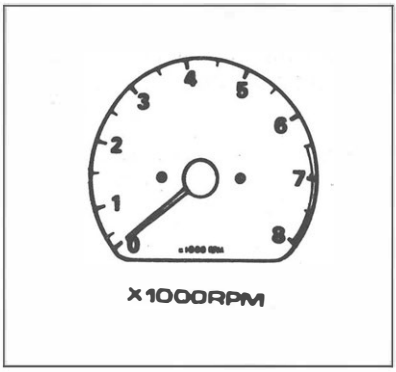
The fuel gauge indicates the level of fuel within the fuel tank. "E" stands for Empty and "F" means Full.

Refer to information on the inside of the rear cover of this Handbook when refuelling.

Tachometer (if fitted)

The tachometer records engine speed in revolutions per minute (r.p.m.)

Continued or sustained operation in the RED zone could cause serious engine damage.

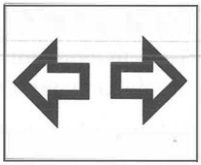


Dimmer

Gauges are illuminated when the headlights or parking lights are switched on.

Adjustment of the brightness is controlled by the knob to the left of the steering column. Turn the knob anti-clockwise to dim the instrument lights and clockwise to brighten them.

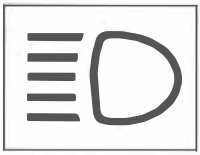
Turn signal



The appropriate green arrow will continuously flash while the lever on the right side of the steering column is moved (refer page 1-5) and the ignition key is turned to ON.

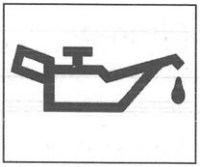
NOTE: Both arrows will flash when the Hazard Warning Flasher is switched on, refer page 1-4.

High beam



This blue symbol is displayed when the headlight high beams are in use. It does not come on when the headlights are on low beam.

Oil pressure!

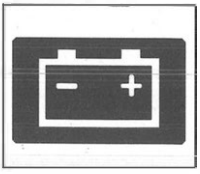


This symbol is displayed when the ignition key is turned to ON - before the engine is started. If the symbol comes on while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level. If the level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with this symbol illuminated.

Brake!

If this symbol is displayed while driving and the park brake is fully released it indicates that there is something wrong with the braking system. You should immediately stop the car on the side of the road as carefully as possible. Do not proceed until satisfied that cautious progress is possible or that the cause of the problem has been fixed.

Generator!



This symbol is displayed when the ignition key is turned to ON - until the engine is started. If the symbol is illuminated when the engine is running it indicates that the generator is not charging. If the generator drive belt is intact there is a problem in the charging system and you should see your Holden Dealer.

Ignition switch

Note:

The key must be pushed inwards when turning from the ACC position to the LOCK position.

To remind you not to lock your keys in the car, a pulsating buzzer will be heard if you leave the key in the ignition switch and the driver's door is opened.

LOCK Normal parking position. Accessories and engine are off. This position locks the ignition and steering when the key is removed. The key can only be removed at this position. To release the steering lock, insert the key into the switch and turn it clockwise. If you have trouble turning the key to unlock the steering, turn the steering wheel slightly to the right or left while twisting the key clockwise.

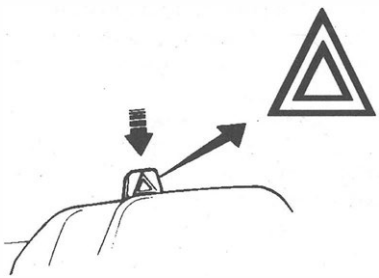
ACC The engine is off but accessories such as the radio will operate.

ON This is the position at which the engine is ready to start and all electrical systems are active. Do not leave the switch in the "ON" position for a prolonged period (unless the engine is running) or you will flatten the battery.

START This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

CAUTION: Do not turn the engine off while the car is in motion as this renders ineffective any power assisted equipment (such as brakes) operated by the engine. Never remove the key while the car is in motion as this will lock the steering of the car.

Hazard warning flasher



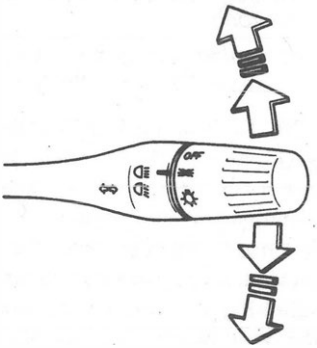
Use the hazard warning flasher to warn other drivers any time your car becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

Turn on the hazard warning flasher by firmly pushing down the switch illustrated. This makes all the turn signals flash continuously, regardless of the ignition position. The green arrows on the instrument panel will also flash. To cancel the hazard flasher, repress the switch.

Use of the hazard warning flashers while the car is moving is prohibited by Law in some States.

The combination lever, on the right side of the steering column, controls turn signals, headlights and high/low beam.

Turn signals

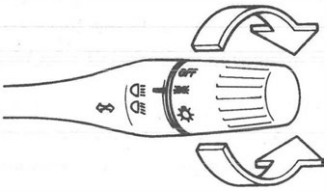


When the ignition is turned to ON, push the lever up to signal a left turn and down to signal a right turn. The lever will return to the neutral position when the turn is completed.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

A green arrow on the instrument panel will flash when the lights are in operation. This is accompanied by a clicking sound.

Light switch



The light switch, on the end of the lever, rotates to 3 positions. Align the required light setting with the line on the non-rotating section.

The top marker is the OFF position, the middle is for the parking lights and the lower marker is for the headlights.

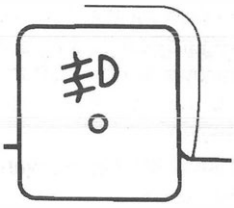
Leaving the headlights switched on without the engine running will flatten the battery. Therefore, as a reminder, a *continuous* buzzer will be heard if the ignition key is removed from the ignition, the lights are left on and the driver's door is open.

High/low beam

With the headlights on, push the lever away from you, until you feel a click, then release. The headlights will change from low to high beam. When the high beams are in use, a blue light on the instrument panel will glow.

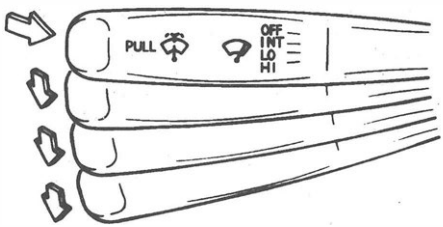
It is also possible to flash the high beams for signalling purposes (even if the headlights and/or ignition are switched off) by pulling the lever towards you. The lights will remain in high-beam as long as the lever is held.

Fog lamps (if fitted)



The fog lamps will illuminate when the switch is pushed on and the headlight and/or park lights are turned on.

Front wipers & washers

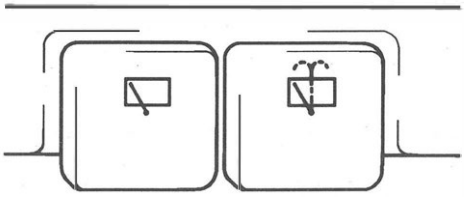


The lever on the left side of the steering column controls the windscreen wipers and washers, which are operational only when the ignition is turned to ON.

Never operate the wipers on dry glass, as this will damage the rubber. To obtain a spray of fluid, pull the lever towards you and hold as long as required. This will automatically turn on the wipers for a short time, if not already operating.

Move the lever down to turn on the wipers. INTermittent (if fitted) is used when driving in conditions such as drizzle or mist, LO switches the wipers to low speed and HI to high speed.

Rear wiper and washer (if fitted)



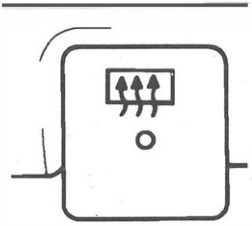
The two switches (located to the left of the steering column) control the rear wiper and washer, which are operational only when the ignition is switched to ON.

Never operate the wiper on dry glass, as this will damage the rubber. To obtain a spray of fluid, press the right, "wash/wipe" switch as long as required.

Depress the left, "rear wipe" switch to turn on the wiper, repress the switch to turn the wiper off.

Refer page 6-8 when topping up washer fluid.

Rear window demister



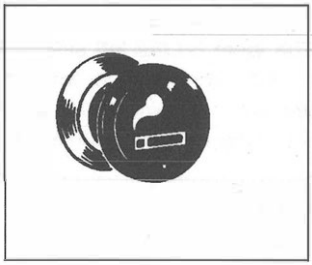
Press the switch to turn on the demister. A light on the switch will glow when the demister is in use. Repress the switch to turn the demister off.

Note: To avoid unnecessary electrical consumption the demister should be switched off when the window is clear.

Note that the demister will only work when the ignition is turned on.

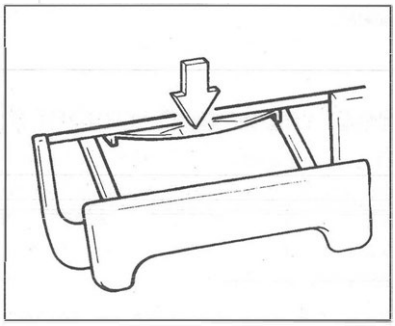
Cigarette lighter

The cigarette lighter is operational with the ignition turned to either ON or ACC. To operate, simply press in the lighter knob. When the element is hot the lighter will automatically pop out, ready for use.



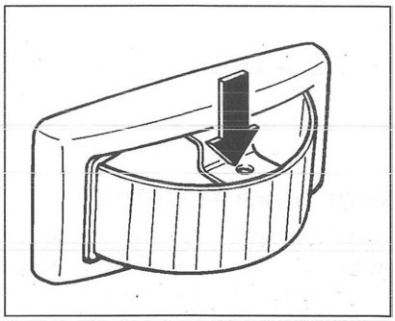
Ash tray

The ***front*** ash tray is located under the radio and heater controls. To clean, remove the ashtray by pulling tray completely out while pushing down centre tongue.



The ***rear*** ash tray (if fitted) is located at the end of the centre console. Push the left side of the ashtray to rotate around for use.

To clean, pull out the ash tray while pushing down the centre plate.



Horn

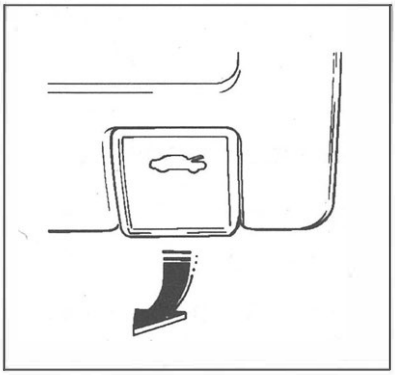
The horn is activated when the pad in the steering wheel is pressed, regardless of the ignition key position.

Glovebox

To open, pull the glovebox handle. To close, push the lid shut.

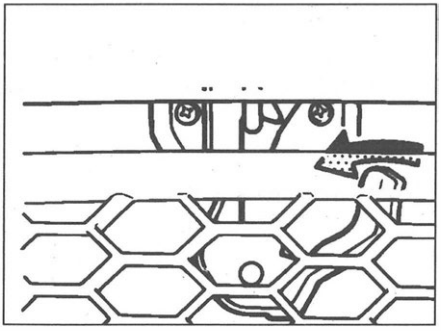
Lock the glovebox by inserting the key and turning it clockwise; unlock by turning the key anti-clockwise.

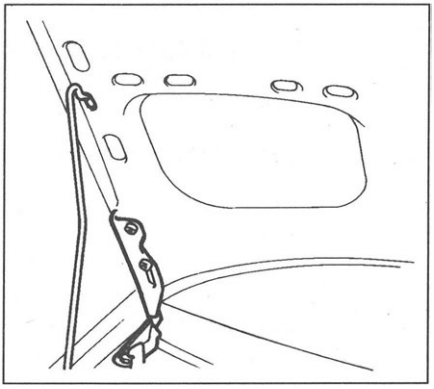
Bonnet release



To open the bonnet, pull the release lever, located beneath the instrument panel, to the right of the steering column. This allows the bonnet to release but is prevented from opening fully by the safety catch. To open completely, reach in under the bonnet and move safety catch sideways. Hold in this position, raise bonnet and support by inserting support rod into the slot provided.

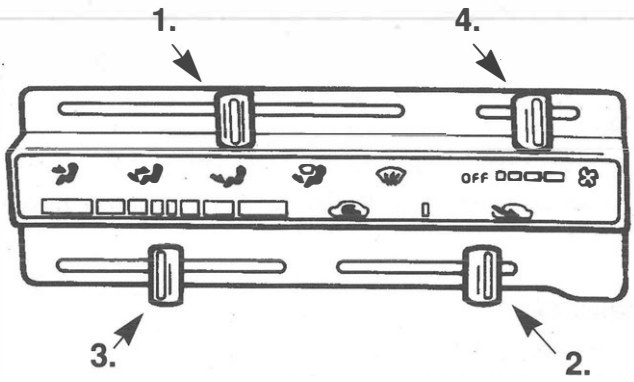
For closing, return support rod to its resting position and lower bonnet gradually to be finally dropped under its own weight.





Radio/cassette/clock (if fitted)

Refer to the operating instruction supplement in your glovebox, for all information relating to the operation of your radio/cassette/clock.



1. Air select lever

FACE. Air is delivered from the face vents.

Bi-LEVEL. When the temperature control lever is between *full* hot and *full* cold, cooler air will be delivered from the face vents and warmer air from the floor outlets. Bi-level can be used for most winter driving.

FLOOR. Heated air is directed from the floor vents and a small amount of heated air from the demist and small side vents

FLOOR & DEMIST. Air is delivered from the floor vents, demist vents and small side vents.

DEMIST. Air is delivered from the demist vents and small side vents.

2. Air intake control lever

Either *re-circulated* or *outside* air intake can be selected with the Air Intake Lever.

When following another car on dusty roads, or to prevent exhaust fumes or odours entering your car, move the lever to *re-circulate* and make sure all windows are closed.

However, when driving on un-sealed roads but where the dust is not airborne, move the lever to *fresh*. All windows must be closed and the fan preferably on a high speed so that positive air pressure in the car will prevent dust entry.

3. Temperature control lever

The temperature lever regulates the temperature of the air entering the passenger compartment in all Select lever positions.

4. Fan blow lever

The fan lever provides speed control of the blower fan in all Select lever positions.

Natural Ventilation Move the air selector lever to the "*FACE*" position, the air intake lever to "*FRESH AIR*" and the temperature control lever to "*COOL*". The fan blower lever can be set in any position.

Heating For quick heating, move the air selector lever to "*FLOOR*", the air temperature lever to "*HOT*", the air intake lever to "*RECIRCULATE*" and the fan to a high speed.

When the car interior is warm move the air intake lever from "*RECIRCULATE*" to "*FRESH*", as the air in the car can become contaminated, making the windows cloudy.

To reduce the heat, switch off the fan and/or slide the temperature lever away from "*HOT*".

"*BI-LEVEL*" may also be used for gentle heating, as cool air is directed to the face and warm air to the feet.

Vents

The car features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Fresh air (when selected by the Air Source Lever) is drawn into the car through the grille in front of the windshield. Do not allow this to become clogged with leaves or snow.

The air can be directed by the Select Lever to four different types of vents: windscreen demist vents, floor vents, face vents and small side vents.

The face vents have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

The floor vents, small side vents and demist vents are fixed, as these direct air to the feet, windows or windscreen in the best possible way.

Air conditioning is turned on when the light in the switch is showing.

Re-press the button to switch off and achieve lower fuel consumption when cold air is not required. Note that the fan switch must be set to 1 or above for the air conditioning to work.

The air conditioner operates more effectively when all the windows are closed.

Hot weather

For a quick cool down when first entering the car on a hot day, switch on the air conditioner, turn the air intake control lever to *re-circulate*, turn the temperature control dial to full *cold* and turn the fan to a high speed. Also, open the windows to allow the hot air to escape. After a minute or two, close the windows (the air conditioning works more effectively with the windows up).

It is recommended that when the interior cools down (approximately 10 to 20 minutes) to set the air intake control lever to *outside* air to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when *re-circulate* is selected. This can be used in slow city traffic or when the car is stationary in very hot weather. However, you should occasionally switch to *outside* air to allow fresh air to enter the car.

Cold weather

If the side windows or windscreen fog up on a cold day, switch on the air conditioner, turn the fan switch to a high speed, turn the air select lever to *demist* or *bi-level* and select a warm setting with the temperature control dial. This will circulate warm, dehumidified air throughout the car, defogging the windows.

Note that the air conditioner not only reduces temperature but also reduces humidity and dust.

Important

Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system and prevent the seals from drying out.

Chapter 2

Before You Drive

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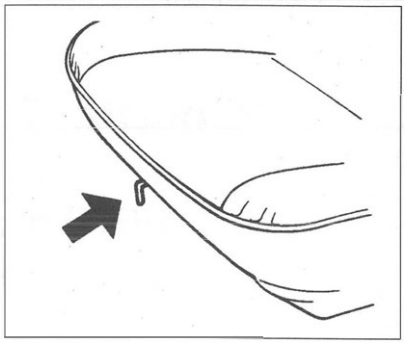
2-7 Hatch lid lock
2-8 Door Locks, including "child proof" door locks.
2-9 Parking Brake
2-9 Interior Light
2-9 Drinks holder

FRONT SEAT

Forward / backward setting

Lift up the lever at the front of the seat, then slide the seat to the desired position. Release the lever. Try to move the seat back and forth to check that the catch is fully engaged.

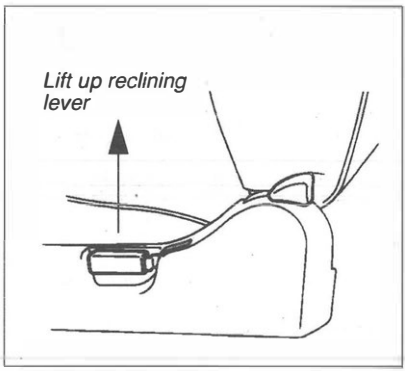
Adjustment should not be made when the car is moving. The seat could move suddenly and cause the driver to lose control.



Reclining back control

The angle of the seat back can be altered by raising the reclining lever, then moving the back of the seat to the desired position.

CAUTION: To avoid reducing the effectiveness of seat belts it is recommended that the reclining seats be used in no more than a semi-reclined position when the car is moving. The fully reclined position should be used only when the car is stationary.



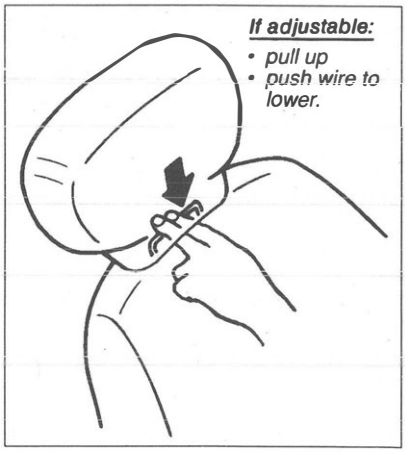
Head restraint

This safety feature is not intended to be used as a headrest. It is solely for the reduction of possible injury that may result from a whip-lash neck movement following a vehicle collision.

2 door Model: not adjustable

4 door model: Pull up; push wire to lower or to remove.

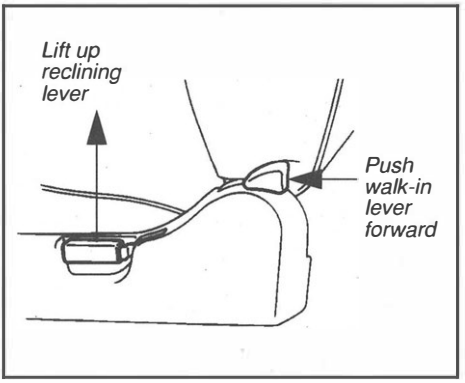
Do not drive your Barina with the head restraint removed as this safety feature is provided to reduce the whip-lash movement following vehicle collision. Adjust the head restraint to the position which places the top of the head restraint closest to the top of your ears.



2 door model - walk-in

Entry to the rear seats is via the front passenger seat. Pull the reclining lever upwards.

Alternatively, the front seat may be reclined by pushing the walk-in lever forward. This method may be more convenient when getting out of the car *from* the rear seat. The seat will automatically slide forward and the seat back will fold forward.

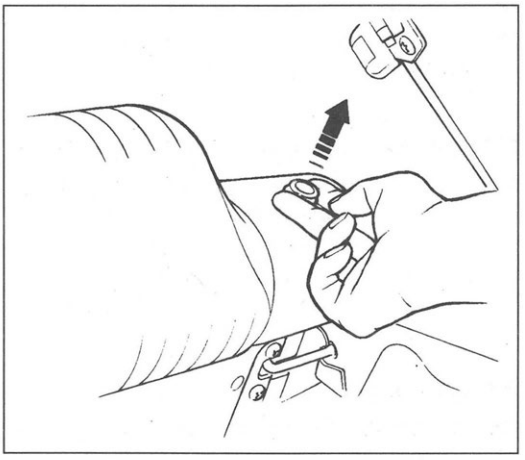


REAR SEAT

The rear seats may easily be converted into cargo space when needed. The right and left seat backs can be individually folded forward.

To convert a seat, pull up the lock button. Fold the back of the seat forward and down.

Either one, or both seats may be folded down at any time.

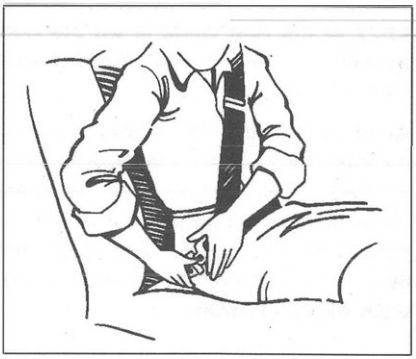


To gain more space remove the rear parcel shelf by un-hooking the tops of the two suspension cords, and unclipping the shelf at both sides.

To return the seat to normal position, lift the back of the seat up and push back until it locks into place.

CAUTION: When converting the rear seat always avoid standing on the driver's side of the car if the car is parked at the curb. Failure do to so could result in personal injury from passing cars.

Retractor belts



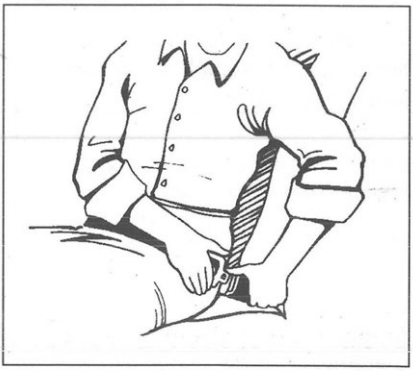
To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the car is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Non-retractor belts



To adjust: Settle yourself comfortably. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.

Maintenance of seat belts

Check the seat belts regularly. Replace the belts if they become frayed or damaged. The buckle and retractor mechanism operations should also be checked.

> Caution: Seat belts must be replaced if they have been in use during a severe impact - even if there is no obvious damage.

Clean belts only with a solution of mild soap and lukewarm water. Never use bleach.

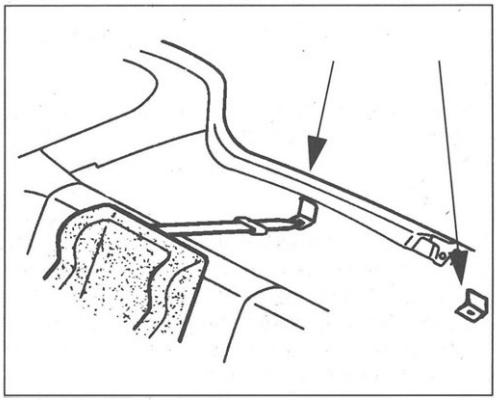
Infant and child restraints

CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE. In some States it is Law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with regular seat belts or an approved child restraint.

Where children are restrained with the regular seat belt and it is desired to raise their seating position this is to be done only by means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF A VEHICLE COLLISION.

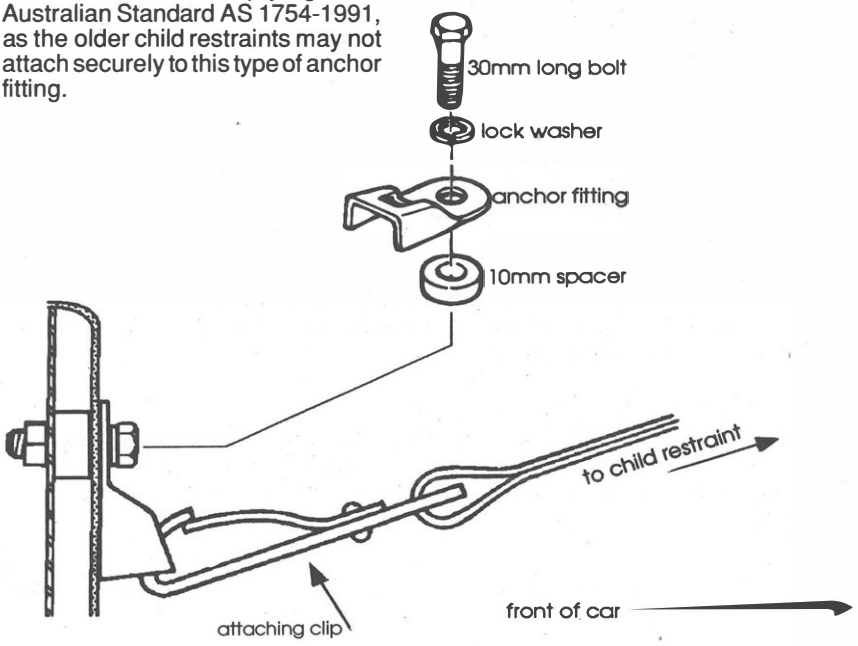
Child restraint anchorages

Your car is fitted with anchorage points for child restraints, located behind the rear seats, as shown at left.



CAUTION: The installation illustrations below are only applicable for installating child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments).

The installation illustrations below are *not* applicable to older child restraints, *not* complying with Australian Standard AS 1754-1991, as the older child restraints may not attach securely to this type of anchor fitting.



Only approved child restraint harnesses should be used on anchorage points. See your Holden Dealer for advice about the various types of approved child restraints available.

INFANTS UNABLE TO SIT BY THEMSELVES should be carried in an approved child seat restraint (capsule). Check with your local Infant Welfare Centre for availability.

The Holden Child Seat is designed for children weighing 9 to 19 kg, up to 1 metre in height, who are able to sit up alone.

WARNING:

Seat belts are designed to bear upon the bony structure of the body, and shouid be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious. Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

WARNING: Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.

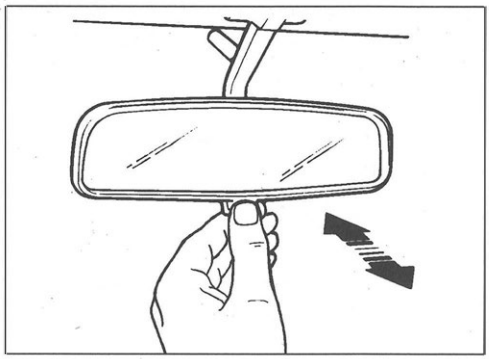
EXHAUST GAS WARNING - also refer page 3-1.

If the child restraint anchor bolt is removed from the floor the hole must be effectively sealed to prevent exhaust gases entering the vehicle interior. Either another suitable bolt or the plug originally fitted in the hole should be used.

Internal rear vision mirror

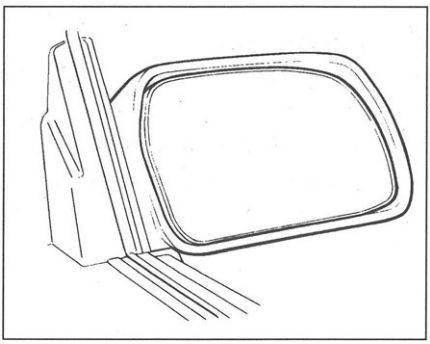
The control lever on the lower edge of the mirror enables reduction of the headlight glare from following vehicles when driving at night.

During normal daylight operation, the lever should be set forward, away from the driver. To reduce the glare at night, pull the lever towards the driver.



Mirror (s)

Move the mirror(s) by hand so that you can just see the side of your car when sitting in the normal driving position.

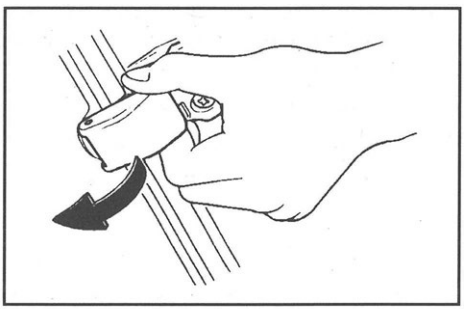


Windows

The door windows are lowered or raised by turning the winders which are fitted to each door.

Swing out rear windows (2 door model only)

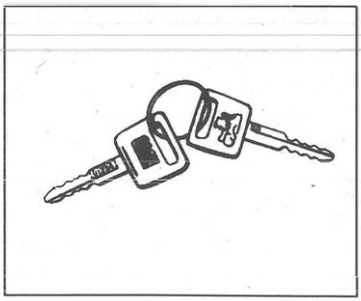
To open the window, move the lock lever forward and outward. To close the window, pull the lever inward and rearward, until it clicks into position.



Antenna

The antenna is located in the driver's side front pillar. To extend it, pull the knob up. For ease of retraction the antenna must be kept clean.

Keys



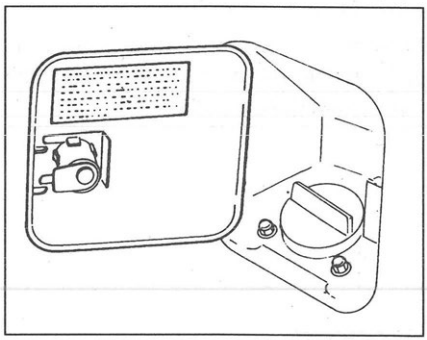
The car comes equipped with a pair of identical keys. Keep the spare key in a safe place. The key can operate the following:

- # Ignition switch - refer page 1-4
- # Door locks
- # Fuel filler lid lock
- # Hatchback lid lock

The key code number is stamped with an identifying number. This number is used when making replacement keys.

Before placing the key on your key ring, record the code number and keep in a safe place so that if the key is lost, duplicates can by ordered from any Holden Dealer by quoting the key code number and providing proof of ownership.

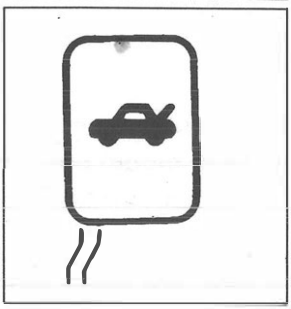
Fuel cap lock



The fuel filler lid is on the left side of the car. To unlock the lid, turn the key clockwise. To lock, turn the key anti-clockwise.

Refer to information on the inside of the rear cover of this Handbook when refuelling.

Hatchback lid release lever (if fitted)



A remote release lever for the hatch lid is provided inside the car. Pull up the release lever, mounted on the floor, to the right of the driver's seat.

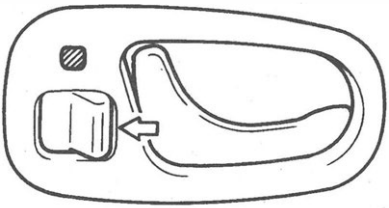
If outside the car, the hatch lid may be opened by turning the key clockwise in the hatch lid lock.

The hatch lid re-locks automatically when pushed firmly shut.

CAUTION: To prevent entry of dangerous exhaust fumes into the passenger compartment, the hatch lid should be closed during vehicle operation. However, if it is necessary to leave the hatch open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up, switch heater controls to "fresh" and set fan to highest speed.

The door is unlocked when the flag (above the lock lever) is showing red.

To lock a door from inside the car, move the lock lever rearward. Move the lock lever forward to unlock the door.



Doors may be locked behind you by first moving the lock lever rearward when the door is open. Shut the door firmly while pulling the door handle outwards.

Alternatively, both front doors can be locked (or unlocked) from outside the car with the ignition key. Turn the key towards the front of the car to lock, towards the rear of the car to unlock.

To remind you not to lock your keys in the car, a pulsating buzzer will be heard if you leave the key in the ignition switch and the driver's door is open.

Rear "child proof" door locks

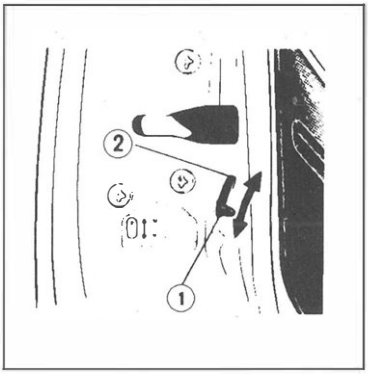
(4 door models only)

Child safety locking helps prevent doors from being accidently opened, especially when small children are in the car.

This added safety feature is built into both rear door locks.

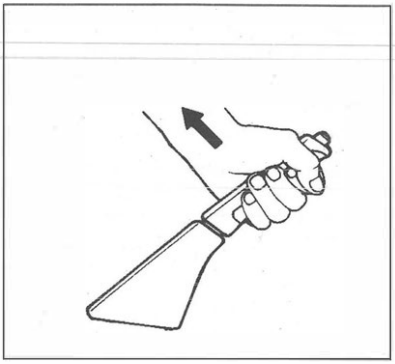
To operate, lower the lever as far as it will go (position 1) and close the door. The door cannot then be opened from the inside.

To unlock, open the door from the outside and slide the lever up to position 2.



CAUTION: For safety, you should check that the lock is operating correctly, after setting, by attempting to open the door from the inside of the car.

Park brake



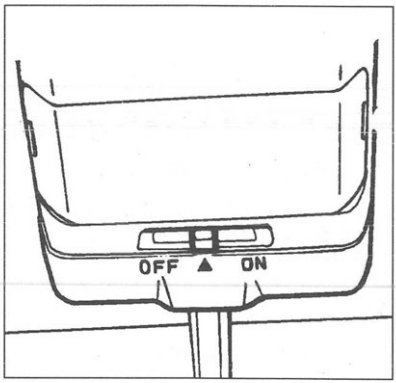
The park brake lever is mounted on the floor between the front seats. To apply, pull the lever upwards.

When the ignition switch is turned to ON, a symbol on the instrument panel will indicate that the parking brake is applied.

To release, raise the lever slightly, push in the button on the end and fully lower the lever while keeping the button depressed.

NEVER drive the car with the park brake applied.

Interior light switch



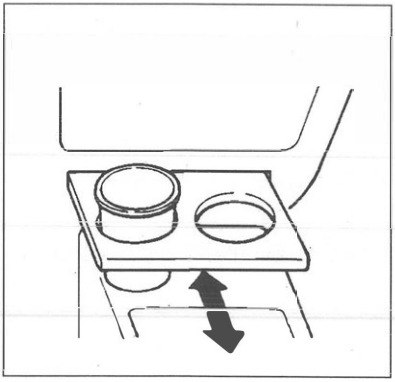
There are three positions.

ON The light stays on regardless of whether the door is open.

△ The light comes on while the door is open.

OFF The light remains off even when the front doors are opened.

Drinks holder



The drink holder is located just below the front ashtray. Make sure it is fully out before placing drink cups in the holes.

Chapter 3

Starting & Driving

Page

3-1 Safety Check List

3-2 Starting the Engine

3-3 Manual Transaxle

3-4 Automatic Transaxle

3-5 Running-in

3-5 Fuel Consumption Tips

3-6 Driving Precautions

EXHAUST GAS WARNING - (Carbon monoxide poisoning)

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your car is faulty.

To protect against exhaust gas entry into the interior of the car we recommend that the exhaust system and body be thoroughly inspected:

- each time the car is serviced
- whenever a change is noticed in the sound of the exhaust system
- whenever the exhaust system, underbody or rear of the car is damaged.

Take the car to your Holden Dealer if you think your car needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE THE CHILDREN OR PETS) IN A PARKED CAR FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING.

DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE, ANY LONGER THAN IS NEEDED TO MOVE THE CAR.

Driving with the hatch lid open is not recommended. If you must travel with the hatch lid open, close all windows, select *outside* with the heater intake lever and set the heater fan to the highest speed. Do not exceed 50 km/h unless necessary.

BEFORE ENTERING THE CAR

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation.
3. If you intend to reverse, check that the area behind your car is clear.

BEFORE DRIVING OFF

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

PARKING

1. Apply the park brake.
2. Place manual transaxles in REVERSE and automatic transaxles in PARK.
3. Shut all windows.
4. Turn ignition key to LOCK and remove the key.
5. Lock all doors when outside the car.

CAUTION: Be careful where you park or drive. As with any vehicle, do not park or operate this car in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

1 Apply the park brake firmly and release only after you have started the engine and are ready to drive off.

2 MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.
AUTOMATIC (where fitted): Move the shift lever to P(park) or N(neutral) position. The engine will not start if it is in any other position.

3 Start the engine as outlined below.

CAUTION: Do not crank the engine for more than five seconds at a time. If the engine does not start, wait at least five to ten seconds before trying again.

Cold engine

Slowly press the accelerator pedal to the floor and release it. Then, with your foot **off** the pedal, crank the engine by turning the ignition key to *START*. Release the key when the engine starts.

Very cold weather or after car has been standing idle several days

Before cranking the engine, fully push down and release the accelerator pedal two or three times. Then, with your foot off the accelerator pedal, crank the engine by turning the ignition key to *START*. Release the key when the engine starts.

Warm engine

Push the accelerator pedal to 1/3 of is travel and hold. Crank the engine by turning the ignition key to *START*. Release the key and accelerator pedal when the engine starts.

Flooded engine

Cranking the engine for a lengthy period without it starting could result in *flooding* (too much fuel in the engine).

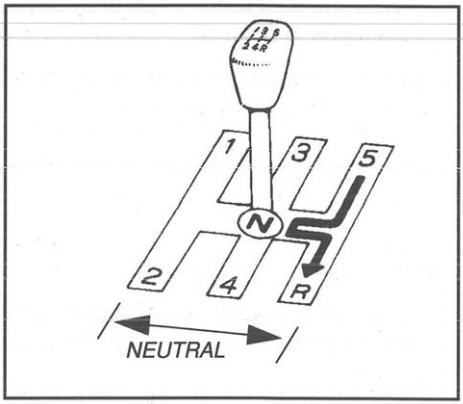
If this occurs, press the accelerator down to the floor and hold it there while holding the key in the START position. When the engine starts, allow the accelerator pedal to come up slowly.

This system has 5 fully synchronised forward gears and a non synchronised reverse gear. The shift pattern illustrated, is also found on the end of the gear shift lever.

The gear shift lever will not move directly from *fifth* gear to *reverse*. To shift into *reverse* from *fifth* gear, push the clutch pedal in, shift into *neutral*, move the lever to the left, back to the right, then into *reverse* gear.

Never attempt to engage *reverse* gear until the car has completely stopped. A slight pause between depressing the clutch pedal and moving into *reverse* gear is desirable to allow all the rotating components to stop and avoid gear clashing.

The chart on the right shows the recommended speed range of each gear. Road speed limits, however, should be observed.



First	Up to 40 km/h
Second	10 - 70 km/h
Third	20 - 110 km/h
Fourth	30 - 140 km/h
Fifth	40 km/h upwards

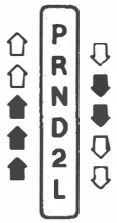
Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping the transaxle gears.
- Shift the gear with a moderate effort to allow time for the transaxle synchronizers to work properly.
- Whenever *reverse* is selected with the ignition on, the back-up light will operate.
- Do not drive with your foot resting on the clutch pedal as damage to the clutch may result.
- When stopped on an incline do not hold the car by slipping the clutch. Use the park brake or brake pedal.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.
- Do not over-speed the engine when shifting down to the next lowest gear.

Depress the button on the side of the T-bar handle when shifting into any position indicated by the **white** arrow.

You may shift *without* depressing the button into any positions indicated by the **black** arrow.

NOTE: The engine will *not* start unless the selector is in P(park) or N(neutral).



P (park)	This stops the front wheels from turning and so should be selected (together with the park brake) when leaving the car. Never select *P* until your car is fully stopped.
R (reverse)	Never select *R* until your car is fully stopped. The reverse light will operate when *R* is selected and the ignition is on. After reversing, make sure the car has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the car is still moving.
D (drive)	This is the normal forward driving position and allows the transaxle to shift to first, second or third gear as conditions require.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little without using the brake. The transaxle will shift to first or second gear as required. Shift back into the *D* position to return to normal driving. Do not select 2 at speeds above 95 km/h.
L (low)	Use this position when strong braking effect is needed on a steep gradient. Remember to shift back to the *D* position so that the transaxle will again upshift into higher gears. Do not select L at speeds above 55 km/h. In any case, the transaxle will not lock into low until vehicle speed is under 55 km/h.

Don't rev the engine with the brakes on in either L, 2, D, or R. This will overheat the transaxle.

Don't rev the engine to hold the car on a slope. Use the brakes.

Don't coast the car in N - this lessens your control and the engine braking power.

When parking on a hill, first apply park brake before shifting T-bar handle to the Park position. This is to prevent the weight of the car causing possible *torque lock*, making it difficult to shift the T-bar. When preparing to drive off, move the selector away from Park before releasing the park brake. Use the brake pedal to hold the car in position, if necessary.

Refer page 6-6 when checking automatic transaxle fluid level.

"Running-in"

These days, there's no need to follow a formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your car's future performance and economy.

For the first 500 kilometres, don't exceed 80 km/h.

Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time. However, include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 kilometres heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

How to reduce fuel consumption

1. **Vehicle Maintenance** Maintain your car in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedule, refer page 9-1. This will ensure items such as spark plugs, air cleaner, engine idle speed etc. are maintained for least fuel consumption and peak engine performance.

2. **Tyre pressure** Keep the tyres at the recommended pressures. Under-inflated tyres creates extra rolling resistance which contributes to increased fuel consumption, refer page 6-9.

3. **Wheel alignment** Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

4. **Warm ups and excessive idling** Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively by driving on the road.

   You should also avoid excessive engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

5. **Accelerating, driving & braking** Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle accelerations - they're certain fuel wasters.

   Drive the car at steady speeds where possible (after run-in). It is desirable to achieve top gear operation as soon as possible, but under no circumstances should you force the engine to labour in top gear.

NOTE: "Riding the brake" by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake pads faster, damage the brakes and waste fuel.

Brakes

- Power assisted brakes, which are fitted to your car, utilise vacuum from the engine when it is running. Never let the car run down steep grades without the engine running. Never coast with the engine switched off.

- Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

- Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

- Your seat should be positioned so that you can reach the brake pedal satisfactorily under all braking conditions.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Loads stowed in the luggage area should be firmly secured.

Tyre traction

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

High speeds

You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up. You may otherwise cause premature engine wear or engine damage.

Towing

This car is not designed or intended to be used to tow a trailer or caravan. Towing a trailer may affect handling, duribility and economy.

Chapter 4

Accidents & Emergencies

Page

4-1 What to do at the Scene of the Accident

4-2 Medical Assistance

4-3 Flat Tyre

4-5 Engine Overheating

4-7 Flat Battery

4-9 Towing a Car

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.

The following notes may help.

Part 1. Accident - being involved.

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Send information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his or her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Part 2. Accident - being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident, do this:

Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.

DO NOT stop at the scene of an accident just to be a spectator.

Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.

Give what assistance you can to any injured persons. (See Part 3. Medical assistance).

Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

Part 3. Medical assistance

Keep calm and think clearly.

Your experience may not be much but do your best. Don't just stand by and let an injured person die.

- Look after the unconscious person first. Check for breathing. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.
- Provided it is not dangerous to do so because of other injuries, an unconscious person will do best in the position illustrated here.

Lay the person on one side and - if it will not aggravate any injures - then:
Bend the uppermost knee until the thigh is at right angle to the body.
Bend the uppermost arm and elbow so that the hand lies near the face.
Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

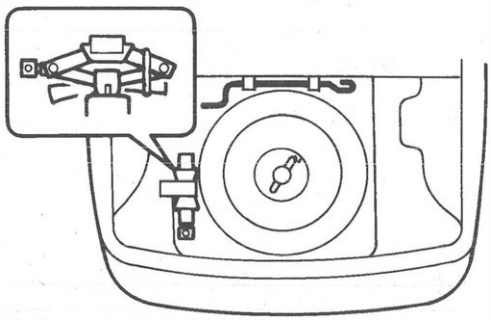
- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.

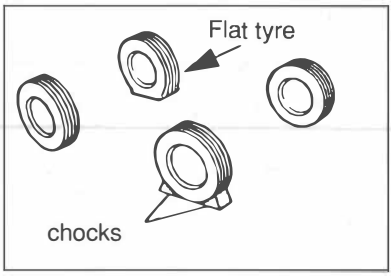
CAUTION:

- Use jack only for lifting car when changing wheels.
- Never get beneath the car when it is only supported by the jack.
- Do not start or run the engine while the car is only supported by the jack.
- All passengers should be out of the car when it is being jacked.
- Use jack only at the designated lifting points. Use in other locations can cause car damage.

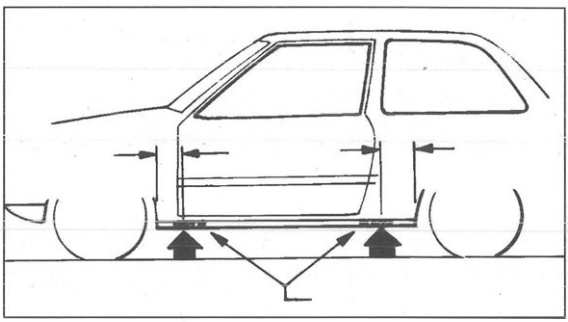
1. Park on level surface and set parking brake firmly.
2. Remove the ignition key and place manual transaxles in REVERSE gear or automatic transaxles in PARK.
3. Remove the jack, jack handle, wheel wrench, wheel trim remover and spare wheel.



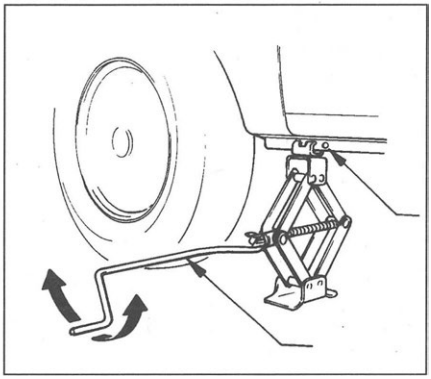
4. Block the wheel diagonally opposite the jacking position.

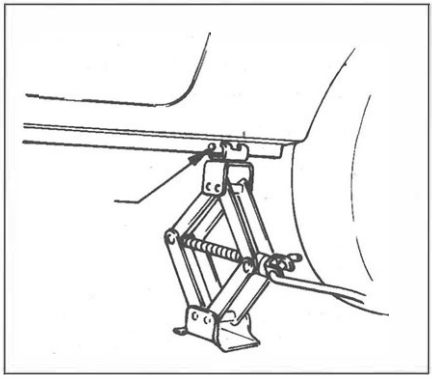


5. Remove the wheel trim by inserting the end of the wheel trim remover between the wheel and the wheel trim. Working around the wheel, gently and evenly lever off the wheel trim.
6. Loosen, but do not remove, wheel nuts by turning wheel wrench anti-clockwise.
7. Place jack below the jack location nearest the wheel to be changed. There are four jack locations, two each side at the front and two each side at the rear.



8. Raise the jack to engage the "U" shaped lifting foot of the jack over the underbody flange at the jack location.

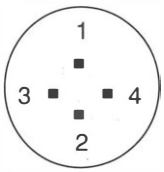




Ensure that the jack is not tilted and that the base is resting squarely on the ground.

CAUTION: Failure to position the jack as described above could result in serious personal injury or car damage caused by the car slipping off the jack.

9. Raise the car until the wheel is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.
10. Remove the wheel from the car and change it over with the spare.
11. Replace the wheel nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.
12. Lower the car completely and remove the jack.
13. Fully tighten the wheel nuts with the wheel wrench in the sequence shown.



14. To replace the wheel trim, locate the tyre valve in the valve hole provided in the wheel trim. Working around the wheel trim, use several light blows with the palm of your hand to push on the wheel trim. It may be necessary to protect the hand during this operation.
15. Stow the jack, jack handle, wheel wrench, wheel trim remover and flat tyre in the rear of the car, as shown on page 4-3.

CAUTION: As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 50-70 Nm (36-50 ft.lbs).

Wheel nuts should be tightened evenly to the correct torque in the sequence shown as improperly tightened wheel nuts could eventually allow the wheel to come off while the car is moving!

CAUTION: If the engine should overheat, as indicated by the temperature gauge reading or if you suspect there is a serious overheat condition immediate action is required. Continued operation of the engine EVEN FOR A SHORT TIME could result in a fire and the possibility of personal injury and/or severe car damage.

If the coolant temperature gauge needle should move all the way to the "H" position, pull out of the traffic as soon as it is safe to do so and stop the car. Leave the engine idling for a few minutes, whilst you step out of the car to check that the cooling fan is working.

CAUTION: Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within this time then STOP the engine, turn the ignition key to OFF and proceed as follows.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the level of coolant in the radiator and the surge tank.

CAUTION: Do not remove the radiator or surge tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

When the engine has cooled sufficiently, remove the radiator cap as follows: cover the cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

With the radiator cap OFF, top up the surge tank if required, refer page 6-1 if unsure of location. Remember to ensure surge tank cap is secure after filling. Then, WHILE THE ENGINE IS IDLING, top up the radiator (if required) and replace the radiator cap.

If, after taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the car attended to, as soon as possible, by a qualified mechanic.

NOTE: The engine may temporarily operate at high temperature during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic

You should avoid operating your car for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer to page 6-2 which gives maintenance instructions to help protect your cooling system from overheating.

CAUTION: DO NOT attempt to "push start" or "tow start" your Barina. These cars are fitted with a catalytic converter and if uncombusted fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire.

If your car will not start due to a discharged battery, it can often be started by using energy from another battery - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your car that you leave the starting to a competent mechanic.

Jump starting

CAUTION: Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

- Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.
- Do not smoke near a battery.
- Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.
- Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paintwork and fabrics if not washed off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewelry before working around the battery.
- Carefully follow each step in the jump starting procedures.
- Never use a quick charger to start your engine.
- If you have a telephone fitted to your car, you should remove the fuse for the telephone before jump starting. Remember to reinstall the fuse afterwards.

1 The battery of your car has a negative earth and a 12 volt rating. The battery in the other car (that is being used to jump start the flat battery) must be the same voltage and also have a negative earth. So, check the specifications in the other car's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used.

2 Position the two cars so that they are NOT touching and apply the park brakes. Automatic transaxles are to be placed in PARK and manual transaxles placed in NEUTRAL. Turn off ignition and all lights and accessories in both cars, except the hazard warning flasher or any lights needed for the work area.

3 Attach one end of the first jumper cable to the positive terminal of the other car's battery (identified by a red colour, + or P on the battery case, post or clamp) and the other end of the same cable to the positive terminal of your car's battery.

4 Attach one end of the second jumper cable to the negative terminal (identified by a black colour, - or N on the battery case, post or clamp) and the other end to a solid stationary, metallic point on your car's engine. DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF CAR'S BATTERY.

5 When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.

6 Start the engine in the other car and run the engine at a moderate speed. Then start the engine in your car.

7 When the engine starts, leave it running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

Proper lifting or towing equipment is necessary when lifting or towing the car to prevent damage during any towing operation. State and Local laws must be followed. In an emergency, your car may be towed on all four wheels in the following manner:

- Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.
- Place transaxle in neutral position and release the park brake.
- Switch the ignition key to "ON" position. This will free the steering lock and allow the correct operation of windshield wipers and turn signals.
- For the sake of safety and to prevent damage to the car it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that power assist for brakes will not be available when the engine is off.
- To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your car, close the windows and stop entry of air by moving heating and ventilation controls to "re-circulate" position.
- Cars fitted with automatic transaxles must not be towed with the front wheels on the ground. The front of the car must be raised when towing
- Cars with damaged transaxles must not be towed with all 4 wheels on the ground. The front of the car must be raised when towing.
- Only the driver should be in a towed car.

Chapter 5

Warranty, Authorised Holden Dealers, Customer Assistance

Page

5-1 **New Vehicle Warranty**
5-2 Special Notice to Owners
5-3 Common Warranty Questions & Answers

Authorised Holden Dealers
5-6 New South Wales
5-8 Australian Capital Territory
5-9 Victoria
5-10 Tasmania
5-11 Queensland
5-12 Northern Territory
5-13 South Australia
5-14 Western Australia

5-15 **Customer Assistance**

Note: Dealership names and addresses are correct at time of printing. They may change from time to time without notice.

NEW VEHICLE WARRANTY

General Motors - Holden's Automotive Ltd Aust. Co. No. 006 893 232 hereinafter Holden's, warrants that it will make good without charge, any defect which appears in the vehicle identified in the identification certificate found on the inside front cover of this handbook.

Provided

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:
   (a) before the vehicle has travelled a distance of 20,000 km or,
   (b within 12 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 12 months of the date when is was first placed into service by the Dealer)

whichever comes first, and

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

and

3. the Dealer has determined that the defect complained of is one of workmanship and *is not* caused by
   (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect
   (b) operation of the vehicle after it is known to be defective
   (c) accident or deliberate act
   (d) atmospheric fallout or flood, hail, salt, etc.
   (e) failure to carry out proper maintenance service
   (f) use of incorrect types and grades of fuel, oil or lubricants
   (g) alteration or modification of the vehicle by any party not authorised by Holden's
   (h) the fitting of parts or accessories not marketed by Holden's
   (i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by Holden's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF HOLDEN'S, BY REPLACEMENT.

Excluded from this Warranty are

* defects in tyres (these being warranted by their manufacturers), and services such as engine tuning, brake adjustment, replacement of air and oil filter, wiper rubbers, etc. which are required as part of normal vehicle maintenance.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all rights conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

Unauthorised statements in relation to Holden's products

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden's product or in connection with the supply of any Holden's product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden's in its published sales literature, and the Company does not accept any such unauthorised action.

Warranty on Holden's replacement parts

Holden's warrants in respect of Holden's parts and accessories required as replacement parts, that it will make good by repair or at its option by replacement any defect occurring in any such Holden's parts and accessories within 12 months from the date of acquisition or in the case of a Holden's part or accessory which has been installed in a vehicle by a Holden Dealer or Service Dealer before such vehicle has travelled a distance of 20,000 km from the date of installation, whichever first occurs.

This section is designed to assist you in understanding the terms of the Holden's Warranty provided with your new car.

The following are some of the most frequently asked questions for which detailed answers have been provided.

Q 1. How do I go about obtaining Holden's Warranty Service?

It is the responsibility of the Selling Dealer to provide Holden's Warranty Service, therefore you should take your car to the Selling Dealer whenever Holden's Warranty Service is required. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook are required by the Dealer whenever you request Holden's Warranty Service.

Note that the 1,000 kilometre Warranty Service may be carried out by any Holden Dealer, provided you have a letter of introduction from the Selling Dealer. This letter must be arranged prior to obtaining the 1,000 kilometre service.

Q 3. What should I do if my car becomes unsafe or inoperative as a result of a defect which is covered by the Holden's New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealeror Holden's Customer Assistance as soon as possible and arrange for that Dealer to carry out the required Holden's Warranty Service.

Q 2. What should I do if, in an emergency, Holden's Warranty Service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden's New Vehicle Warranty) is required to enable your car to be operated safely and it is not practical for you to have that service performed by an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your car to be operated safely) may be performed by any other qualified service technician or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden's Warranty Service. You must also take your car to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden's Warranty Service as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden's Customer Assistance, prior to repairs being commenced.

Q 4. Are my tyres covered by the Holden's New Vehicle Warranty?

No. The tyres fitted to your car are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden's New Vehicle Warranty. However, the scheduled 1,000 kilometre service specified in chapter 9 of the handbook is free of charge (except for any lubricants used), provided that your car has been operated under normal operating conditions (refer page 9-2) and provided also that no modifications (other than a modification made by or at the direction of Holden's) have been made to your car. The Maintenance Schedules in this handbook specify the minimum maintenance required for your car operating under normal conditions.

The Maintenance items, except where they are required as a result of defects in materials or workmanship, for which you will be required to pay include:-

- Engine tune-up; including replacing spark plugs.
- Replacement of all filters.
- Cleaning or flushing of fuel, coolant, brake, engine, transaxle, etc., after the 1,000 kilometre service.
- Adding to or replacing lubricants.
- Adding to or replacing air conditioning refrigerant, after 5,000 km.
- Any necessary adjustments to drive belts, transaxles, clutch, park brake etc.
- Wheel balancing - after 5,000 kilometres.
- Wheel alignment
- De-dusting or de-glazing of brake linings or pads - after the 1,000 kilometre service.
- Brake lining wear or damage
- Brake disc pad or disc wear
- Battery re-charging
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after the 1,000 kilometre service.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after the 1,000 kilometre service.
- Body rattle, squeaks and general tightening of bolts, fastenings and fittings - after the 1,000 kilometre service.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.

Q 6. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden's New Vehicle Warranty?

No, these items are not covered. The Holden's New Vehicle warranty only covers the repair, replacement or adjustment of those parts of your car which are found to be defective in materials or workmanship, No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your car will be recognised under the Holden's New Vehicle Warranty. The rights and remedies which are available to you under any relevant Statutory Enactment or otherwise, at law, in connection with any such claim for compensation, you must pursue outside the ambit of the Holden's New Vehicle Warranty.

Q 7. Are Holden's parts and accessories covered by warranties?

If you purchase a Holden's part or accessory from an Authorised Holden Dealer it will by warranted by that Dealer under the Holden's parts and accessories Warranty against defects in materials or workmanship for a period of 12 months from the date at which you purchased it. In the case of a Holden's part or accessory which has been installed in a car by a Holden Dealer or a Service Dealer it will be warranted for a period of 12 months or a distance of 20,000 km from the date of installation, whichever occurs first.

Maintenance items such as filters, spark plugs, wiper blades and brake pads/linings will require replacement as part of normal maintenance. Such replacements are not the subject of this warranty.

Q 8. Would my car's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden's?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives are *not* recommended; their use will not only increase operating costs, but may be detrimental to the operation of your car.

Q 9. Will I have to pay for any costs or expenses in connection with the provision of Holden's Warranty Service?

All parts and labour used in carrying out Holden's Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden's Warranty Service is to be carried out by the Servicing Dealer it is your responsibility to deliver your car to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden's New Vehicle Warranty, your car cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden's Warranty Service, Holden's will accept reasonable towing costs to move your car to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden's Customer Assistance (refer page 5-15) to obtain guidance.

N.S.W. Metropolitan

ARNCLIFFE **Suttons Motors Arncliffe Pty Ltd** - 93 Princes Highway
ASHFIELD **Muirs Motors (Ashfield) Pty Ltd** - 252 Parramatta Road
BALGOWLAH **Mitchell Cox Holden** - 164 Condamine Street
BAULKHAM HILLS **Tony Packard Holden** - Cnr Victoria Ave & Windsor Rd
BLACKTOWN **West City Holden** - 120~128 Sunnyholt Road
CABRAMATTA **John Abrahams Holden** - 266~284 Hume Highway
CAMPBELLTOWN **Paul Wakeling Holden** - Cnr Blaxland & Campbelltown Rds
CHULLORA **Suttons Motors (Chullora) Pty Ltd** - Cnr Hume Hwy & Waterloo Road
CROWS NEST **New Hunter Holden** - 446 Pacific Highway
DEE WHY **Peninsula Holden** - Cnr May & Mooramba Roads
GORDON **Sundell Holden** -Cnr 836 Pacific Hwy & McIntyre Street
HOMEBUSH **Suttons Motors Homebush Pty Ltd** - 112 Parramatta Road
HOMEBUSH **Gilbert & Roach Pty Ltd** - 167~173 Parramatta Road
KINGSFORD **John Pellegrini Holden** - 263~271 Anzac Parade
LAKEMBA **Michael Lyons Holden** - 817 Canterbury Road
LIVERPOOL **A.C. McGrath & Co Pty Ltd** - 411~419 Hume Highway
MIRANDA **Greg Ball Holden** - 1~3 Kiora Road
NEWPORT **Esso Car Care Centre (Mobil)** - 340 Barrenjoey Road
PADSTOW **Princeton Holden** - 19 Davies Road
PARRAMATTA **Boyded Parramatta** - 65 Church Street
PENNANT HILLS **Barry Smith Holden** - 351~355 Pennant Hills Road
PENRITH **Triway Holdings Pty Ltd** - 39~47 Henry Street
ROCKDALE **Peter Terry Holden** - 571 Princes Hwy
RYDE **Hunter Holden** - 603~605 Victoria Road
SPRINGWOOD **Springwood Holden** - 15 Ferguson Road
ST. MARY'S **John Young Holden** - Cnr Glossop & Harris Streets
WAITARA **Suttons Motors Waitara Pty Ltd** - 90 Pacific Hwy
WINDSOR **Hawkesbury Valley Holden** - 18 Macquarie Street

N.S.W. Country

ADELONG **Robert Broadhurst Holden** - Tumut Street
ALBURY **Brian White Holden** - 647~657 Dean Street
ARDLETHAN **Carr's Engineering** - 4 Mirrool Street
ARMIDALE **New State Motors** - 103 Rusden Street
BALLINA **Quayside Motors** - Pacific Highway
BARADINE **John Farrell & Co.** - Wellingon Street
BARHAM **Hall's Motors Pty Ltd** - 44 Noorong Street
BATHURST **Bathurst Motors Pty Ltd** - 54 Durham Street
BATLOW **Robert Broadhurst Holden** - Pioneer Street
BEGA **South Coast Holden** - 247 Carp Street
BELLINGEN **E.H.H. Raymond Pty Ltd** - Broadway
BELMONT **Challenge Holden** - 444 Pacific Highway
BLAYNEY **Mitchell Holden** - 98 Adelaide Street
BOMBALA **Delcott Engineering Pty Ltd** -Maybe Street

N.S.W. Country cont.

BOOROWA **Boowowa Auto Repairs** - 40 Marsden Street
BREWARRINA **Hertslet Holden** - Bathurst Street
BROKEN HILL **Donlee Motors Pty Ltd** - Cnr Galena & Rakow Streets
CANOWINDRA **Canowindra Motors** - Gaskill Street
CARDIFF **Brian Kelly Holden** 35~39 MacQuarie Road
CASINO **McKinnon Holden** - 142 Barker Street
CESSNOCK **Geoff Boyd Holden** - 173~175 Wollombi Road
COBAR **Cobar Motors Pty Ltd** - Barton Street
COFF'S HARBOUR **Geoff King Holden** Cnr Pacific Hwy & Thompson Rd
COOLAMON **Coolamon Motors** - Cowabbie Street
COOMA **Summit Holden** - 66~70 Sharp Street
COONABARABRAN **Alan McWhirter Holden** - John Street
COONAMBLE **Moody's Motors** - 37 Aberford Street
COOTAMUNDRA **Jenkins Garage** - 111 Wallendoon Street
COROWA **R.W.E. Fraser & Co Pty Ltd -** 218 Honour Avenue
COWRA **Waugoola Motors Pty Ltd** - Kendal Street
CROOKWELL **Crookwell Autos** -114 Goulburn Street
DENILIQUIN **Burchfield Bros & Co** -112~114 End Street
DORRIGO **Phil Noble Motors** - 46~48 Hickory Street
DUBBO **John Kierath** - 54 Bourke Street
EDEN **Ron Doyle** -113 Imlay Street
FINLEY **Riverina Garage Finley** -104 Murray Street
FORBES **Paddison & Co** - Cnr Rankin St & Court Lane
GILGANDRA **Allan Cooper Holden** - 106 Warren Road
GLEN INNES **Glen Severn Holden** - 167 Grey Street
GLOUCESTER **Grahame's Garage Pty Ltd** -1 Park Street
GOSFORD **Noble Holden** - Pacific Highway
GOULBURN **Geissler Motors** - 279~298 Auburn Street
GRAFTON **Ken Casson Holden -** 71~ 75 Spring Street
GRENFELL **Terry Carroll Motors Pty Ltd** - 40 Alexandra Street
GRIFFITH **Leo Franco Holden** -152 Yambil Street
GUNDAGAI **McPherson Motors Pty Ltd** - Sheridan Street
GUNNEDAH **Namoi Valley Motors** - 48 Barber Street
GUNNING **Bailey's Garage Pty Ltd** - Yass Street
GUYRA **Burgess Garage Pty Ltd** - 131~143 Bradley Street
HARDEN **Ginty & O'Leary** - Cnr Station & Albury Streets
HAY **Royce Curtis Motors** - 168 Lachlan Street
HOLBROOK **Lieschke Motors Pty Ltd** - Albury Street
INVERELL **Gaukroger Sales Pty Ltd** - Vivian Street
JERILDERIE **Jerilderie Motors** - Jerilderie Street
KANDOS **Chrisfield Holden** - 11 Angus Street
KATOOMBA **Arthur Brown Holden** - 136 Great Western Hwy
KEMPSEY **Thoroughgood Motors** - 118~132 Belgrave Street
KIAMA **Glen Fulton Holden** - 35~41 Collins Street
KYOGLE **O & A Holden** - 128~134 Summerland Way
LEETON **John Ryan Holden** - 47 Pine Street
LISMORE **John Chant Motors Pty Ltd** - 21~27 Carrington Street
MACKSVILLE **Eastland Auto Centre** - 18~22 Cooper Street
MACLEAN **O'Halloran Motors** - 175 River Street
MAITLAND **Heritage Holden** - 557~567 High Street
MOREE **Keith Haddad Holden** - Cnr Boston & Heber Streets
MORUYA **Surfair Holden** - 88 Vulcan Street

N.S.W. Country cont.

MOSS VALE **Vagg & Partners Holden -** 160 -162 Argyle Street
MULLUMBIMBY **Tony Carsburg Holden** - 2 Argyle Street
MUDGEE **Ross Granata Motors** - 47~55 Market Street
MURWILLUMBAH **John Giddings Holden** - 29 Prospero Street
MUSWELLBROOK **Upper Hunter Motors Pty Ltd** - 116 Bridge Street
NARRABRI **Allan Cooper Holden** - 181 Maitland Street
NARRANDERA **C. & S. Coelli** - 6 Boundary Road
NARROMINE **L.E. Stanley Pty Ltd** - Dandaloo Street
NEWCASTLE **Young & Green Pty Ltd -** 745 Hunter Street
NOWRA **Glendon Motors Holden** - 301~313 Princes Highway
ORANGE **Canobolas Holden** - 348 Summer Street
PARKES **Go Motors of Parkes** - Cnr Mitchell & Clarinda Streets
PEAK HILL **S.Leary & Sons Pty Ltd** - Mingelo Street
PORT MACQUARIE **Todd Holden -** 16~20 Clarence Street
QUIRINDI **Browning Motors** - 82 Henry Street
SCONE **Upper Hunter Motors (Scone)** - 91 Kelly Street
SINGLETON **Lancaster Holden** - 80 John Street
TAMWORTH **Kensells Holden** - Cnr Bourke St & Kable Ave
TAREE **Hardes Auto House -** 61 Manning Street
TEMORA **Rod Lovering Holden** - 2 Stockinbingal Road
TENTERFIELD **Sexton & Green (Sales & Service) Pty Ltd** -148 Rouse Street
TORONTO **Young & Green (Toronto) Pty Ltd** - Carey Street
TUMBARUMBA **Broadhurst Autos** - Albury Street
TUMUT **Nancarrow Holden** - 35 Fitzroy Street
ULLADULLA **Johnston Holden** - 150 Princes Highway
TWEED HEADS **Tweed Motors Pty Ltd** - 75~79 Pacific Highway
VALLEY HEIGHTS **Kerrys Motors Pty Ltd** - 28 Great Western Highway
WAGGA **Wagga Motors Pty Ltd** - 32 Dobney Avenue
WALCHA **Bowden's Garage Pty Ltd -** Derby Street
WALGETT **Walgett Garage Pty Ltd** - Wee Waa Street
WALLA WALLA **D.E. Lieschke & Son Pty Ltd** - Commercial Street
WARIALDA **Roger Moore** - Hope Street
WARILLA **Wilson's Warilla Pty Ltd** - 29 Shellharbour Road
WARREN **Fuller Bros** - Dubbo Street
WELLINGTON **Gersbach's Garage Pty Ltd** - 92 Lee Street
WEST WYALONG **West Wyalong Motors** - 183 Main Street
WOLLONGONG **Dwyers Pty Ltd** - 31~33 Crown Street
WYONG **W.M. Holden** - Pacific Highway
YASS **Bill Nesbitt Holden** - 221 Comur Street
YOUNG **Harden & Geelan Holden** - 48 Boorowa Street

A.C.T.

BELCONNEN **Gerald Slaven Holden** - Josephson Street
BRADDON **Beazley & Bruce** - 44 Mort Street
PHILLIP **Commonwealth Motors Pty Ltd** - 158 Melrose Drive

Vic. Metropolitian

BERWICK **Barry Bourke Holden** - 755 Princes Highway
BUNDOORA **Watson Holden** - 413 Grimshaw Street
BURWOOD **Penfold Holden** - 63 Burwood Road
CAULFIELD **Booran Holden** - 1049 Glenhuntly Road
CHELSEA **Harrison Holden** - 370 Nepean Highway
CHELTENHAM **Allwell Holden** - 1212 Nepean Highway
DANDENONG **Graeme Blanchard Holden** - Princes Highway
ELSTERNWICK **Reg Hunt Holden** - 77 Nepean Highway
ESSENDON **Preston Motors (Essendon) Pty Ltd** - 205~211 Keilor Road
FAWKNER **Mantello Holden** - 1263 Sydney Road
FERNTREE GULLY **Neilson Holden F.T.G.** - 980 Burwood Highway
FOOTSCRAY **Alan Mance Holden** - 435 Barkly Street
FRANKSTON **Noel Gould Holden** - 140 Dandenong Road
GEELONG **R & B Smith Holden** - 510 Moorabool Street
GEELONG **Winter & Taylor (Sales) Pty Ltd** - 23 Cavendish Street
GLEN WAVERLEY **Geoff Brady Holden** - 565~577 Springvale Road
HASTINGS **Westernport Holden** - 843 Frankston~Flinders Road
LILYDALE **Noel Dight Holden** - 344 Main Street
MORNINGTON **John Collins Holden** - 976 Nepean Highway
OAKLEIGH **Garry & Warren Smith** - 1575 Dandenong Road
PRESTON **Ralph D'Silva Holden** - 573-603 High Street
RINGWOOD **Patterson Cheney Holden** - 45~57 Maroondah Highway
SOUTH MELBOURNE **Patterson Cheney Holden** - 132 Sturt Street
SUNSHINE **Kevin Dennis Holden** - 272 Ballarat Road
WERRIBEE **Ballan Holden** - Princes Highway
WEST MELBOURNE **Reg Hunt Holden** - 577 King Street

Vic. Country

ALEXANDRA **Alexandra Tyre & Hire** - 79 Grant Street
ARARAT **David Reid Motors** - High Street
BAIRNSDALE **The Big Garage** - 199 Main Street
BALLARAT **Peter Amor Motors** - 2~26 Mair Street
BENALLA **Arnott's Motors** - 88~90 Bridge Street
BENDIGO **Ron Poyser Holden** - Cnr High & Myrtle Streets
BIRCHIP **R.L. & C.J. Bales** - 38 Cumming Avenue
BOORT **Jaron Motors** - 55 Godfrey Street
CASTERTON **Coxons Autos** - 139 Henty Street
CASTLEMAINE **Terry Scully Motors** - Barker Street
CHARLTON **K.V. Charlton** - 70 High Street
COBRAM **Neville Mustica Motors** - Murray Valley Hwy
COHUNA **Humphrey Motors Pty Ltd** - 13~15 Market Street
COLAC **Parker Bros Motors Co** - 224 Murray Street
CORRYONG **Boers Motors** - 88~90 Hanson Street
DAYLESFORD **K.R. Little Pty Ltd** - Vincent Street
DIMBOOLA **Westerfield Motors Pty Ltd** - 64 Lloyd Street
DONALD **O.A. Shilton & Sons Pty Ltd** - Wood Street
ECHUCA **Echuca Motors** - 148 Murray Valley Highway
EUROA **Croxford Holden** - 41 Clifton Street
FOSTER **Ray Dower Motors** - 78 Main Street

Vic. Country cont.

HAMILTON **Peter Sandow Motors Pty Ltd** -261 Gray Street
HOPETOUN **Hopetoun Motors** - 78 Lascelles Street
KANIVA **Kaniva Motors -** 82 Commercial Street
KOOWEERUP **Gray Blakey Holden** - Station Street
KORUMBURRA **Peter Dunlevie Holden** - 42 Commercial Street
KYABRAM **D'Alberto Holden** - 60 McEwen Road
KYNETON **Mollison Motors Pty Ltd** - 167 Mollison Street
LEONGATHA **Gleeson Holden** - 37~43 Bair Street
MAFFRA **Knight Paterson Holden** - Johnson Street
MANSFIELD **Christopher & Kirley Automotive Services** - Early Street
MARYBOROUGH **Graham Jacka Holden** - 35 Nolan Street
MILDURA **Stuart & Harrison (Sales) Pty Ltd** - 24~32 Deakin Avenue
MIRBOO NORTH **Ridgeway Motors** - 106 Ridgeway Road
MORTLAKE **W. Christian (Mortlake) Pty Ltd** - 107 Dunlop Street
MURRAYVILLE **Peers Motors** - McKenzie Street
NATHALIA **BHB Motors** - 6 Blake Street
NHILL **Ivan Morrow Motors Pty Ltd** - 71~73 Nelson Street
NULLAWIL **Nullawil Motors & General Engineers** - Calder Highway
ORBOST **Merlin Motors** - Stanley Street
PORTLAND **Reynolds Holden** - Henty Highway
QUAMBATOOK **Quambatook Auto Services** - 32 Gutherie Street
ROCHESTER **Bruce Hocking Motors Pty Ltd** - 71 Moore Street
RUTHERGLEN **Jasper Bros Pty Ltd** - Main Street
SALE **Keith Boyd Holden** - 273 York Street
SEA LAKE **Paddy Smith Holden** - Calder Highway
SEYMOUR **Neil Beer Holden** - 49 Emily Street
SHEPPARTON **Parker Bros Auto Co** - Melbourne Road
STAWELL **Tonkin Motors** - 71~73 Main Street
ST. ARNAUD **Maurie McGrath Motors** - 126 Napier Street
TALLANGATTA **Crispin Motors** - 21 Towong Street
TIMBOON **Timboon Motors** - Bailey Street
TRARALGON **Colin Watson Holden** - Princes Highway
UNDERBOOL **A.J. Gloster & Sons -** Cotter Street
WANGARATTA **Alan Capp (New Cars) Pty Ltd** - Tone Road
WARBURTON **Col McKenzie Holden** - Main Street
WARRACKNABEAL **Amor Motors Aubrey Truck Sales** - 33 Woolcock Street
WARRAGUL **Vin Rowe Holden** - 3 Endeavour Street
WARRNAMBOOL **Callaghan Motors Pty Ltd** - 133~137 Fairy Street
WONTHAGGI **J.P. Holden** - 2 Murray Street
YARRAM **Graham Helleren Motors Pty Ltd** - Bland Street
YARRAWONGA **Pigdons Pty Ltd** - Belmore Street

Tas.

BURNIE **Motors Burnie** - 84~89 Marine Terrace
DEVONPORT **Motors Devonport** - Victoria Parade
HOBART **Motors Pty Ltd** - 179 MacQuarie Street
KING ISLAND **King Island Motors Pty Ltd** - Netherby Road, Currie
LAUNCESTON **Motors Launceston** - Elizabeth Street
SMITHTON **Motors Pty Ltd** - 116 Nelson Road
ULVERSTONE **Motors Pty Ltd** - 99 Reibey Street

Qld. Metropolitian

ALBION **Bill Harrison Car Sales** - Frodsham Street & Crosby Road
ASPLEY **Zupps (Aspley)** -1442 Gympie Road
BOOVAL **Zupps Holden** - 246 Brisbane Road
CAPALABA **Oldfield Holden** - 103 Redland Bay Road
MOOROOKA **John Sivyer Holden** - 1060 Ipswich Road
MT. GRAVATT **Zupps Motors Pty Ltd** - 1310 Logan Road
NEWSTEAD **Eagers Retail Pty Ltd** - 95 Breakfast Creek Road
NUNDAH **Eagers (Northside)** - 1319 Sandgate Road
PETRIE **North Pine Motors** - Gympie Road
REDCLIFFE **Village Holden** - 425 Elizabeth Avenue
SPRINGWOOD **Motorama Holden** - Cnr Pacific Highway & Brennan Street
WINDSOR **Leach Holden** - 143 Newmarket Road
WOOLLOONGABBA **Armstrong Holden** - 73 Ipswich Road
WYNNUM **Doug Barton Holden** - 200 Tingal Road

Qld. Country

ATHERTON **Redding Motors Pty Ltd** - 2 Cook Street
AYR **Honeycombes Sales & Service** - 213~217 Queen Street
BEAUDESERT **Lawson Holden** - 57 Brisbane Street
BILOELA **Richard Cooley Holden** - Dawson Highway
BOWEN **McDermott Holden** - 98 Herbert Street
BUNDABERG **Ross Gray Holden** - Takalvan Street
CABOOLTURE **Becham Holden** - Bribie Island Road
CAIRNS **Ireland Holden** - 227~233 Mulgrave Road
CALOUNDRA **Drinnan Holden** - Caloundra Road
CHARLEVILLE **Alan Dobbin Holden** - 129 Alfred Street
CHARTERS TOWERS **Peters Holden** - 57 Mosman Street
CHINCHILLA **Ainsworth Motors & Machinery Pty Ltd** - 55 Chinchilla Street
CLONCURRY **Cloncurry Motors** - 59 Scarr Street
CROWS NEST **Dennis Nissen Motors** - 14 William Street
DALBY **Johnson's Holden** - 36 Drayton Street
EMERALD **Leahy Motors** - Clermont Street
GATTON **Gatton Auto Centre** - 67 Railway Street
GLADSTONE **Andersons Auto City -** 56 Yaroon Street
GYMPIE **Madills** - 35 Mellor Street
INGHAM **Origlasso Motors** - 99 Lannercost Street
INNISFAIL **I.C. Taylor Pty Ltd** - 117 Edith Street
JULIA CREEK **Julia Creek Motors Pty Ltd** - Burke Street
KILCOY **Hobart's Garage** - 58 Mary Street
KINGAROY **John Dundas Pty Ltd** - 38 King Street
LAIDLEY **Buhse's Garage Pty Ltd** - 5 Spicer Street

Qld. Country cont.

LONGREACH **Longreach Motors** - 33 Swan Street
MACKAY **Pioneer Holden** - Cnr Gordon & Wellington Streets
MAROOCHYDORE **Sunco Holden** - Wises Road
MARYBOROUGH **Whitaker Holden** - 109~111 March Street
MOUNT ISA **Barkly Motors Pty Ltd** - Marian Street
MURGON **Clifton Motors** - McAllister Street
NAMBOUR **Kallenbach Motors** - 139 Howard Street
NANANGO **Nanango Motors Pty Ltd** - 72~74 Drayton Street
NOOSA HEADS **Gilbert Motors Pty Ltd** - Cnr Cooroy Noosa Rd & Coral Tree
PROSERPINE **Crossley Car Whitsunday Pty Ltd** - 162~164 Main Street
QUILPIE **Quality Motors** - Boonkai Street
ROCKHAMPTON **Lawrence's** - 327 Richardson Road
ROMA **Maranoa Multi Agencies** - Bowen Street
SOUTHPORT **Lockhart Holden** - Cnr Nerang Road & Olsen Avenue
SPRINGSURE **Springsure Motors** - Eclipse Street
ST. GEORGE **Halpin Motors** - 39~41 Grey Street
STANTHORPE **Central Motors** - 42 Maryland Street
TOOWOOMBA **Eagers Retail Pty Ltd** - Cnr James & Hume Streets
TOWNSVILLE **Tony Ireland Holden** - 87~91 Charters Towers Road
TULLY **Island Coast Holden** - 12 Richardson Street
WARWICK **Deighton Motors Pty Ltd** - Grafton Street
WINTON **Gillespie Motor Dealers Pty Ltd** - Elderslie Street

N.T.

ALICE SPRINGS **Kittle Bros (Alice Springs) Pty Ltd** - Cnr Wills & Railway Terrace
DARWIN **Kerry Holden** - 21~25 Stuart Highway
KATHERINE **Master Motors** - 1130 Victoria Highway

S.A. Metropolitian

ADELAIDE **City Holden** - 203~221 Grenfell Street
ELIZABETH **Peter Page Holden** - Elizabeth Way
MALVERN **Claridge Holden** - 361~367 Unley Road
PORT ADELAIDE **Smiths of Port Adelaide** - 271 Commercial Road
REYNELLA **Southgate Holden** - 49~59 Main South Road
SOMERTON PARK **Ellers Holden** - 278 Brighton Road
THEBARTON **United Holden** - 1 Port Road
VALLEY VIEW **Plaza Holden** - 817~839 North East Road

S.A. Country

BALAKLAVA **Balaklava Motors** - 4 Wallace Street
BERRI **Rosenthal Bros Pty Ltd** - Vaughan Terrace
CEDUNA **Beck Motors Pty Ltd** - Poynton Street
CLARE **Brian Holmes Holden** - 7 Old North Road
CLEVE **Herbert Motors Pty Ltd** - Main Street
CRYSTAL BROOK **Newitt's** - 26 Brandis Street
CUMMINS **Trigg & Wedd** - 3 Umlauf Street
GAWLER **Steinhage Holden** - Cnr Murray & Bridge Sts
KADINA **J.H. Rosewarne Pty Ltd** - Graves Street
KEITH **Farmers Centre** - McBain Street
KINGSCOTE **Roberts Motors** - Telegraph Road
KINGSTON **Lecornu's Service Garage** - Agnes Street
LAMEROO **Des Pahl Motors** - 27 Chandos Terrace
LOXTON **Flight Motors Pty Ltd** - Bookpurnong Terrace
MAITLAND **Maitland Motors Pty Ltd** - 58 Robert Street
MALLALA **Curnow's Garage Pty Ltd** - Balaklava Road
MENINGIE **Peter Hood Holden** - Cnr Princes Highway & Coonalpyn Road
MILLICENT **Dennis Cowling Holden** - 98 George Street
MT. BARKER **Gilbert Motors (Mt. Barker) Pty Ltd** - 57 Adelaide Road
MT. GAMBIER **O.G. Roberts & Co** - Jubilee Highway West
MURRAY BRIDGE **Dutton Motors Pty Ltd** - 7 Adelaide Road
NARACOORTE **Kingcraig Motors Pty Ltd** - 158~164 Smith Street
PORT AUGUSTA **Ken Feltus Holden** - 38 Stirling Road
PORT LINCOLN **City Motors** - King Street
PORT PIRIE **Spencer Holden** - 50 Ellen Street
RENMARK **Rosenthal Motors Pty Ltd** - Ral Ral Avenue
STRATHALBYN **Gilbert Motors (Strathalbyn) Pty Ltd** - High Street
TANUNDA **E.H. Hage & Co Pty Ltd** - 50 Murray Street
TUMBY BAY **Seaview Motors** - Tumby Terrace
VICTOR HARBOR **Southern Holden** - 5 Victoria Street
WAIKERIE **Riverside Holden** - 6 Crush Terrace
WHYALLA **Mitchell Holden** - 64 Essington Lewis Avenue
YANKALILLA **Martin Motors Pty Ltd** - Main Street
YORKETOWN **Southway Holden** - 7 Minalaton Road

W.A. Metropolitan

CANNINGTON **Brian Gardner Holden** - 1308 Albany Hwy
FREMANTLE **Shacks Holden** - 64 Queen Victoria Street
GOSNELLS **Lance Gibbons Holden** - 2325 Albany Highway
MELVILLE **Melville Motors Pty Ltd** - 532~536 Canning Highway
MIDLAND **Goldy Holden** - 161 Great Eastern Highway
MORLEY **Metro Motors Pty Ltd** - 212 Walter Road
NAVAL BASE **Shacks Cockburn** - 15 Rockingham Road
OSBORNE PARK **North City Holden** - Cnr Scarborough Beach Rd & Harborne St
PERTH **City Motors** - 505 Newcastle Street
VICTORIA PARK **Young's Holden** - 529 Albany Highway
WANNEROO **Phoenix Holden** - 5 Berriman Drive

W.A. Country

ALBANY **Manley Stanwell Holden** - 92~98 Earl Street
BRIDGETOWN **Kordics Bridgetown** - Hampton Street
BROOKTON **Coote Motors** - Robinson Road
BROOME **Norwest Holden -** McPherson Street
BUNBURY **Wallace Holden** - 72 Spencer Street
BUSSELTON **Fennessy Holden** - 2~4 Bussell Hwy
CARNAMAH **T & H Walton Stores Pty Ltd** - Robertson Street
CARNARVON **North West Autos** - 175 Robinson Street
COLLIE **Station Motors** - 102 Throssell Street
CORRIGIN **Farmpower** - Kunjin Road
CRANBROOK **Cranbrook Motors** - 11~13 Gathorne Street
DALWALLINU **Reid & Inglis** - Johnson Street
ESPERANCE **Dempster Holden** - Norseman Road
GERALDTON **Youngs Motors** - Cathedral Avenue
GNOWANGERUP **G.S. Hendry & Co Pty Ltd -** Yougenup Street
KALGOORLIE **Kyle Motors -** 114 Boulder Road
KARRATHA **Moxham Holden**- Lot 1952 Balmoral Road
KATANNING **Edwards Holden** - 159 Clive Street
KELLERBERRIN **Dowding Motors** - 1 Mitchell Street
KUNUNURRA **Elgee Automotive & Diesel Services** - Mango Street
MANJIMUP **Kordics** - Rose Street
MERREDIN.**Carson's of Merredin** - 112 Barrack Street
MOORA **Frank Lewis Holden** - Gardiner Street
NAREMBEEN **W.J. Nichols (1979) Pty Ltd** - 20 Churchill Street
NORTHAM **Withnell Motors** - 58 Fitzgerald Street
PORT HEDLAND **Leete Motors** - 26~28 Anderson Street
WAGIN **Marley White & Co** - Tudor Street
WONGAN HILLS **Agro Machinery Pty Ltd** - Fenton Street
WYALKATCHEM **J.S. Rimmer & Sons** - Railway Terrace

We want you to be happy with your new car together with the people you deal with while you have the car.

Normally, any problems which may arise with the sales transaction, operation or servicing of your car will be handled by your Dealer's Sales and Service Department.

We realise however, that, with the best intentions, misunderstandings do occur sometimes.

Accordingly, we suggest you discuss any concern with either the Sales Manager or Service Manager at the Dealership. If you haven't received satisfaction, then go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, you have the facility of the Holden's Customer Assistance Service office at your disposal.

The Holden's Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 646 5466. Outside the Melbourne Metropolitan area, the number is 008 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations on (03) 797 7341

Naturally, telephoning is the quickest and the best way of contact. However, if you prefer to write the address is:

The Manager
Holden's Customer Assistance Services
GPO Box 548D
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- ★ Your name and address
- ★ Telephone numbers, both private & Business
- ★ Servicing Dealership name and address
- ★ Vehicle model
- ★ Vehicle identification number (VIN)
- ★ Date of purchase
- ★ Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

Chapter 6

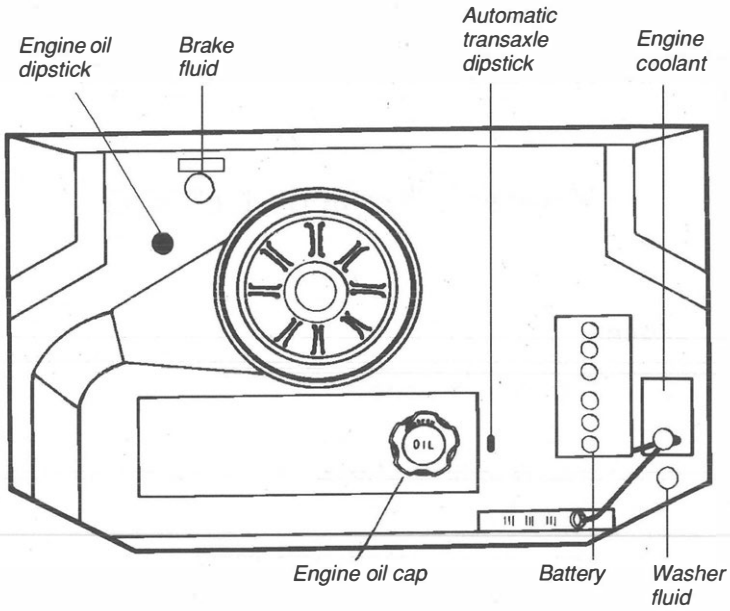
Weekly Maintenance

Page

6-1 Location for checks
6-2 Engine coolant check
6-3 Engine oil level check
6-5 Brake fluid level check
6-6 Automatic transaxle fluid level check
6-7 Battery fluid level check
6-8 Washer fluid level check
6-9 Tyre air pressure check
6-12 Miscellaneous checks
6-12 Service manuals
6-13 Fuses
6-14 Bulb replacement

As well as taking your car to be serviced (refer Chapter 9) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

Refer Chapter 1, page 1-8 for raising and securing the bonnet.



CAUTION: Avoid inhaling exhaust gases because they contain carbon monoxide, which is a dangerous gas that can cause unconsciousness and is potentially lethal.

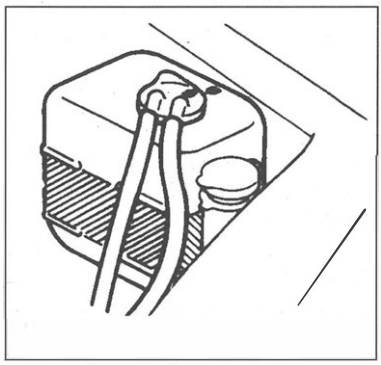
DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE ANY LONGER THAN IS NEEDED TO MOVE.

DO NOT SIT IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING

If, at any time you think exhaust fumes are entering the car, have the cause determined and corrected as soon as possible.

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container, called the surge tank.

When the engine is cold the coolant level should be at or above the *LOW* mark on the surge tank. After the car has been driven and the engine is at normal operating temperature the level should be somewhere between half full and the *FULL* mark on the surge tank.



The LONG LIFE COOLANT in your car conforms to Holden's specification number HN 2043. This can be purchased as:

M40236 (1 litre)

M40307 (5 litres)

M40238 (20 litres)

If the surge tank requires topping up, first premix a solution of 50% LONG LIFE COOLANT and 50% water. Flip up the cap on the top of the surge tank, add the premixed solution and secure the cap.

Failure to use the specific Holden's coolant or maintain the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily in the cooling system until the correct Holden's LONG LIFE COOLANT is obtained as soon as possible from the nearest Holden Dealer.

It should be noted that the specified LONG LIFE COOLANT contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This LONG LIFE COOLANT also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -37°C, provided the correct concentration is maintained.

If you regularly have to top up the surge tank you should see your Holden Dealer for a cooling system check.

CAUTION: CORROSION INHIBITORS AND ANTI-FREEZE FLUIDS ARE POISONOUS. USE EXTREME CARE WHEN HANDLING. IF SWALLOWED SEEK MEDICAL ATTENTION.

Refer to page 4-5 if engine overheats.

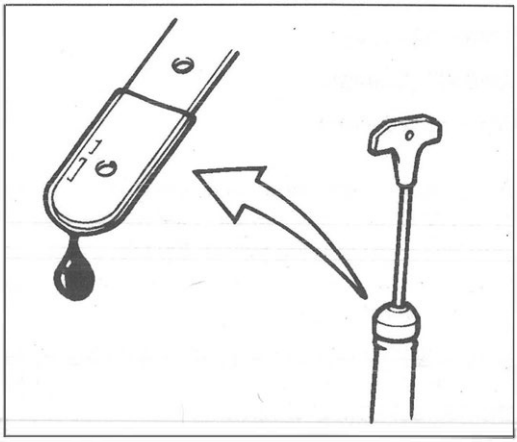
It is the owner's responsibility to check the oil level weekly. The best time to check the engine oil level is when the oil is warm, such as during a refuelling stop.

To check the oil level accurately, the car must be on level ground. After stopping the engine, wait a few minutes for the oil to settle.

The level is checked from the dipstick. Refer to the diagram on page 6-1 for location.

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.

The oil level should be maintained between the two marks, neither going above the *full* dimple nor under the *low* dimple. Remember to re-insert the dipstick firmly after taking the reading.



If you need to add oil, use SF or SG grade engine oil 20W/40 (or 15W/40 for prolonged use in snow areas).

To add oil, turn the oil cap (refer page 6-1 for location) anti-clockwise and remove. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil. When correct, screw the cap back on tightly and replace the dipstick.

If you check the oil level when the oil is cold do not run the engine first. The cold oil will not drain back into the oil pan fast enough to give a true oil level reading.

NOTE: If oil has to be added often, there may be a problem or leak, and you should see your Holden Dealer.

Every internal combustion engine uses a certain amount of oil, especially during the running-in period. Your engine is dependant on oil to lubricate the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine, apart from mechanical malfunctions such as worn pistons, rings, valve stems and guides. These factors are: the way in which the vehicle is operated, the quality and grade of oil, the oil level, and dilution of the oil.

✻ OPERATION OF THE VEHICLE

Sustained high engine speeds will increase oil consumption because higher speeds increase engine temperature which lowers oil viscosity thus allowing more oil to reach the combustion chamber. Towing a heavy load will also result in increased oil consumption due to increased engine temperature and hence lower oil viscosity.

✻ QUALITY AND GRADE OF OIL

Oil viscosity is a significant factor in oil consumption, therefore if you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

✻ OIL LEVEL

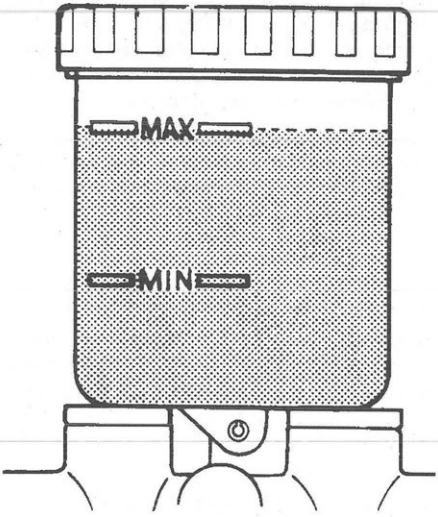
Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full crankcase allows the reciprocating parts of an engine to splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

✻ DILUTION

Probably the most prevalent complaint of oil consumption comes from the motorist whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 km.

The brake fluid level in the master cylinder should be checked regularly in conjunction with checking the oil and coolant levels. The fluid level, visible through the "see through" master cylinder should be maintained between the MIN and MAX level markings.



If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture which in turn lowers the boiling point of the fluid as well as increasing risk of corrosion of brake components.

If fluid needs to be added, turn the cap anti-clockwise.

Top up with a heavy duty brake fluid SAE J1703 or DOT 3. Remember to ensure cap is firmly done up.

Note: Use only **new** brake fluid. Use of an old, used or inferior brake fluid may endanger the functioning of the brake system.

If the master cylinder requires constant topping up it could indicate that a malfunction exists, in which case it should immediately be brought to the attention of your Holden Dealer.

The level of fluid in the automatic transaxle (if fitted) should be checked weekly, by looking at the fluid level on the dipstick. Refer to the diagram on page 6-1 for location. Dirt in the transaxle can cause breakdowns, so be careful when checking or adding fluid.

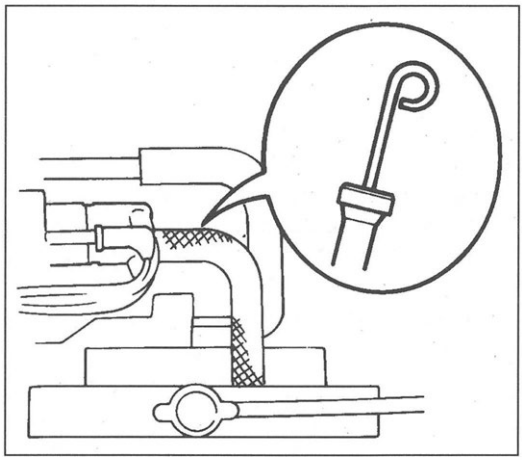
The fluid should be checked after the car has been driven for at least 15 minutes - so that the fluid is warm.

The car must be standing on level ground with the engine running.

Apply the park brake.

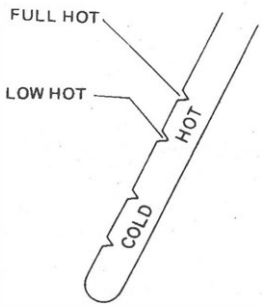
Move the T-bar selector through each gear, ending in *PARK*.

Remove the dipstick, wipe it clean with a clean cloth or paper and re-insert it fully. Now remove it again and read the fluid level.



The correct level is between the two marks on either side of the word *HOT*.

If adding fluid, use only DEXRON* 11D. Add the fluid in the same opening as the dipstick is stored in and wait one minute for the oil to settle. Again check the level with the dipstick and add further fluid if necessary. Remember to always replace the dipstick.



NOTE: If fluid has to be added often, there may be a problem or leak - and you should see your Holden Dealer.

NOTE: The cold marking on the dipstick should only be used when initially filling the transaxle after the fluid has been completely drained. When checking "cold", start the engine and run at idle for 5 minutes. Move the T-bar through the selector range and back to *PARK*, then check the fluid level using the *cold* markings on the dipstick. The above cold level check is strictly temporary. Therefore a final check, using the hot method described previously should be done after the car has been driven for at least 15 minutes.

* *DEXRON is a registered trademark of General Motors Corporation.*

When the bonnet is lifted, the "see through" battery is on the passenger's side of the engine compartment.

When checking the level, make sure the engine is not running.

NOTE: Rocking the car slightly will make the level more visible.

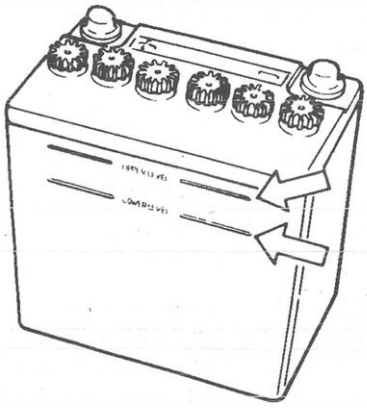
CAUTION:

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewellery, ring and metal watch bands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.

The level of the battery solution must be kept between the *UPPER* and the *LOWER* level lines at all times. If the level is found to be below the *LOWER* level line, add distilled water to take level to the *UPPER* line.

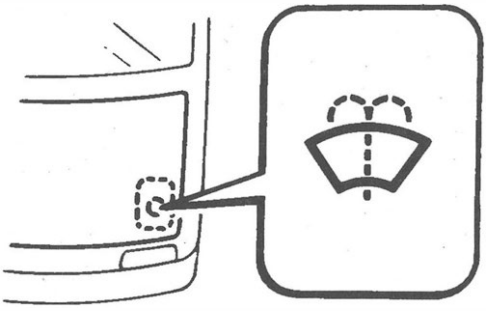


If white powder (indicating corrosion) is found on and/or around the battery terminals, it should be washed off with hot water and then grease or vaseline should be applied. Make sure that no hot water gets into the battery.

Refer page 4-7 for emergency starting when the battery is flat.

Battery specification = 12 volt, 38 amp hours

The washer fluid is constantly used, so the level should be checked weekly and topped up as required.

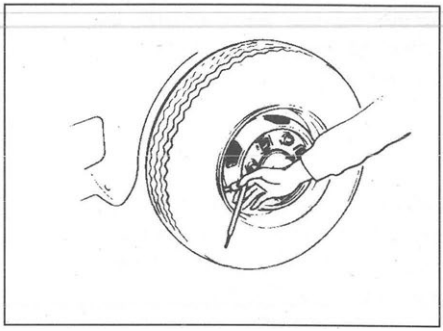


When the bonnet is lifted, the plastic container is visible on the passenger's side of the engine compartment. Refer to page 6-1 for exact location. This container supplies water for both the front and rear washers.

For a crystal clear windscreen, the correct amount of Optikleen (part no. M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured after adding fluid.

Tyre air pressure



Checking the air pressure of your tyres (including the spare) ensures your SAFETY, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your car will handle at it's best - CHECK THE PRESSURES WEEKLY. For constant long distance or rough road travelling, daily checking is recommended.

Refer to the tyre placard on the right, door-lock pillar for the correct pressure for your tyres.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the TYRES ARE COLD (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

Always use a TYRE PRESSURE GAUGE to check the tyres - simply looking at the tyres is not sufficient.

Remember to put back any valve DUST CAPS or EXTENSIONS if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the TYRE TREAD, for stones or abnormal wear.

To maximise the protection of tyres on cars operating for prolonged times over rough roads (particularly in outback conditions) it is recommended that the cold tyre inflation pressure recommended for maximum load condition as shown on the tyre placard is used.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the car to "pull" to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

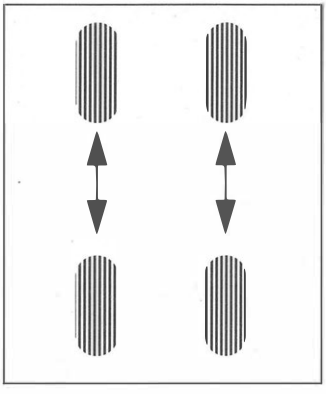
If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check done by your Holden Dealer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your car.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may void your warranty as well as your motor vehicle insurance policy.

Tyre inspection and rotation



Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your car to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated, it is recommended that the balance be checked at the same time. However if no abnormal or uneven wear is evident, tyres need not be rotated.

Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your car for the purpose you require should be referred to your Holden Dealer.

Tyre traction

CAUTION: A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practise and vehicle speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydro-planing, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1 Reduce speed levels during rainstorms or when roads are slushy and if the road has standing water or puddles.

2 Replace tyres when tread wear indicators are visible.

3 Check that tyres are properly inflated.

Tyre replacement and repair

CAUTION: Do not mix different tyre construction types, such as radial and cross ply, on your car except in emergencies, because your car's handling could be affected and may result in loss of control.

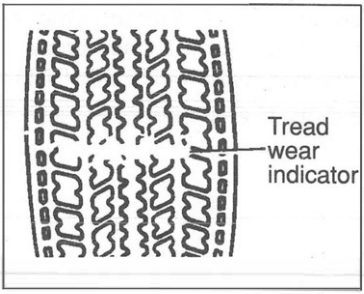
When replacing tyres you should use the same size, load rating and construction type as the original tyres on your car. Refer to tyre placard inside glove box for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, vehicle ground clearance and tyre or tyre chain clearance to the body or chassis.

Tyres with a higher speed rating and/or with a maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

1. The tyres are worn to the point where the tread indicators appear or the cord or fabric is showing. The original equipment tyres fitted to your car incorporate built-in tread wear indicators which assist in determining when the tyres have worn to the point of needing replacement (see illustration). In the interest of safety, replacement should not be delayed.



2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

If in doubt about the extent of damage to the tyre have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacture's recommendations.

CAUTION: Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds therefore use is not recommended.

The following checks should also be regularly done to ensure proper safety and dependability of your car.

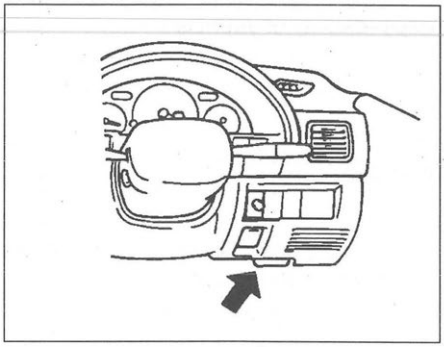
CHECK:

- that all exterior lights are working and that their appropriate interior indicators light up when in operation.
- mirrors and glass are clean and not scratched.
- automatic transaxle T-bar indicator correctly lines up next to the gear selected.
- the aim of water on the windscreen or hatchback and condition of the wipers
- demister operates.
- horn works.
- all seat belt condition and operation (give it a sharp tug to make sure that it will 'lock' if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

Service manuals

General Motors-Holden's Automotive Limited also publishes various service manuals which are available from your Holden Dealer.

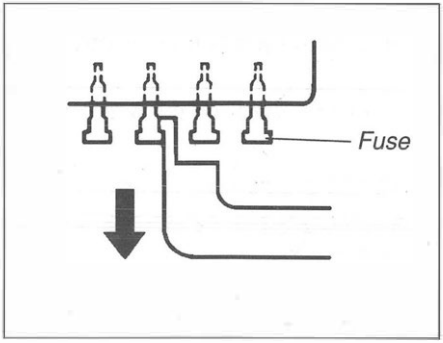
The fuse box is located under the driver's side of the instrument panel.



Pull away the cover by hand.

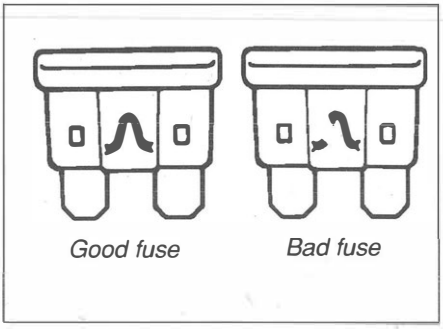
The under side of the fuse box cover shows a layout diagram of the fuses and the amperage required.

To remove a fuse, hook the fuse with the end hook on the fuse box cover, and pull out the fuse.



Fuses used are of the blade type with the amperage values moulded into the head. To determine whether or not a fuse is "blown", it is necessary to pull out the suspect fuse and examine the element in the fuse. If the element is broken (see illustration), replace the fuse with one of the same amperage value.

If after replacing a burnt-out fuse the new fuse also burns out, this indicates that the fuse is still overloaded. The cause of the fault should be located and rectified, preferably by a Holden Dealer.

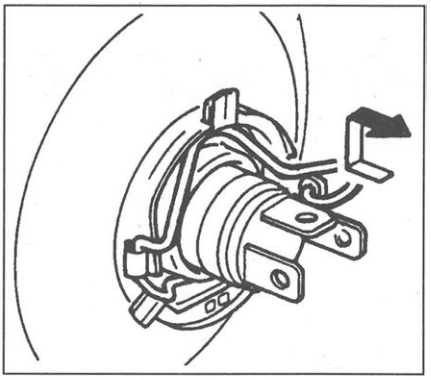


CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse as it could damage electrical components and may cause a fire hazard to your car.

Do not touch bulbs or reflectors with bare hands. Greasy fingers will cause stains which evaporate - eventually resulting in a dull reflector. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

Headlights (60/55 watts)

Open the bonnet. Remove the socket and rubber dust cap. Then unhook the bulb holding spring and replace the bulb.



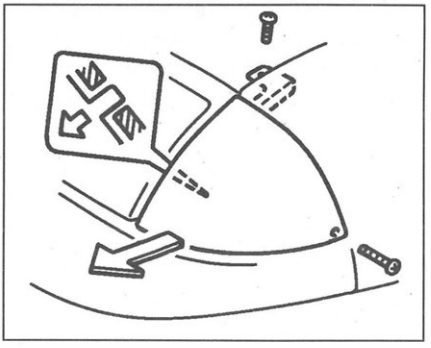
CAUTION: Adjustment of the headlight beam is necessary after replacing the headlight unit. If you have performed the replacement work yourself, make sure you take the car to your authorised Holden Dealer for proper adjustment.

Front park lights (5 watts)

Undo the two screw holding in the lens and unhook the lens by pulling the lens forward.

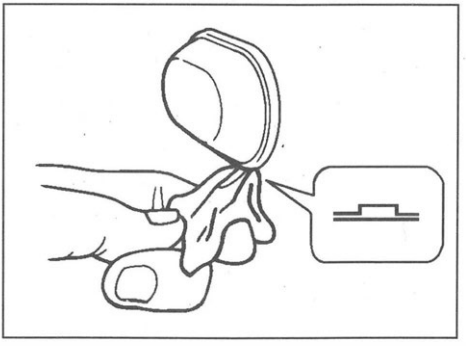
Remove bulb holder from lens by twisting anti-clockwise. Remove the bulb from the bulb holder by pulling bulb straight out.

When reinstalling the lens, ensure that the lug (headlight side of lens) is hooked in place, otherwise the lens will be slightly crooked.



Side turn signal (if fitted) (5 watts)

Pull out the lens. The bulb can be removed by pulling straight out.



Front turn signal (21 watts)

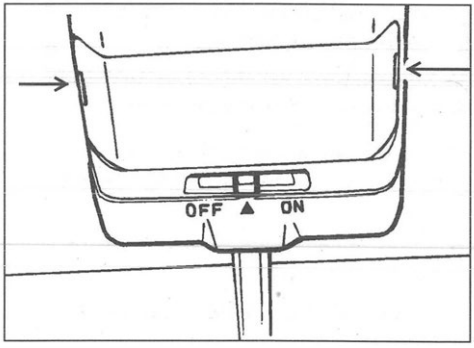
Undo the two screws holding in the lens and remove. Remove bulb by pushing in, then turning anti-clockwise. A new bulb is installed by performing the same action in reverse order.

Licence plate light (5 watts)

Undo the two screws and remove the light housing.

Interior Light (5 watts)

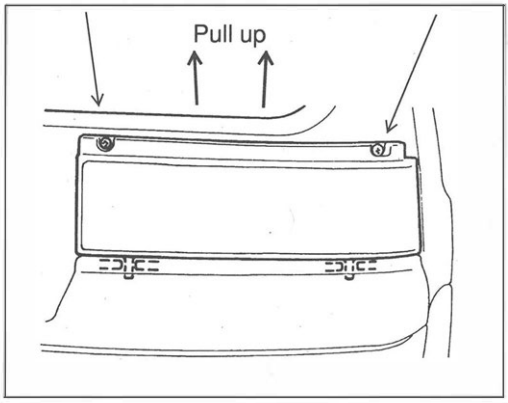
Squeeze in lens at sides and pull down. The bulb can be removed by simply pulling it out. When replacing the bulb, make sure that the contact springs are holding the bulb securely.



Centre brake light (18 watts)

For access to the bulb, undo the two screws at the front, underside of the light housing. Pull the cover forward and down. The bulb can then be pulled straight out.

Rear turn signal, brake, tail, reverse lights

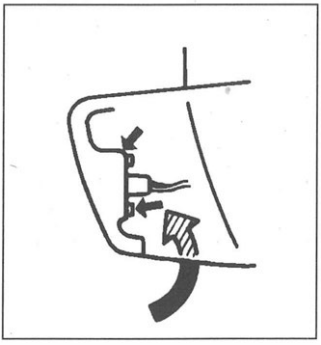


Open the hatch back lid to gain access to the screws. Undo the two screws securing the panel in the centre of the rear lighting. Then, undo the two screws at the top of the lens housing and remove the housing by lifting it up.

Remove bulb holders by twisting anti-clockwise. Remove bulbs from bulb holders by pushing in and twisting anti-clockwise.

The bulb for the rear turn signal is 21 watt; the brake/tail is 21/5 watt, the reverse is 21 watt.

Fog lamps (55 watts, if fitted)



Raise and securely support the car.

From under the front bumper, remove the two nuts securing the fog lamp housing to the bumper.

Turn bulb holder cap anti-clockwise and remove it from the fog lamp housing.

Unhook the bulb holder spring.

Disconnect the bulb wire coupler in bulb holder cap and replace bulb.

Reinstall removed parts in the reverse order of removal.

Chapter 7

Appearance Care

Page

INTERIOR CLEANING

7-1 Upholstery
7-2 Vinyl (P.V.C.) fabrics
7-2 Cloth fabrics
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7-2 Seat belts
7-2 Interior glass

EXTERIOR CLEANING

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7-4 Removing grease, oil & tar spots
7-4 Polishing
7-5 Exterior glass
7-5 Wiper blades & windscreen
7-5 Tyres
7-6 List of appearance care & maintenance materials

CAUTION: Many cleaners may be toxic or flammable, or may cause damage to the interior. When cleaning the interior, do not use volatile cleaning solvents such as: acetone, thinners, enamel reducers, nail polish removers, or such cleaning materials as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose.

Be sure the car is well ventilated while using any cleaning agents. Follow the manufacturer's recommendations when using such products.

Care and cleaning of upholstery

Dust and dirt particles which accumulate on the surface of the interior trim should be removed every few weeks - more often with constant hard driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains from an upholstery fabric, it is necessary to determine as accurately as possible:

1 The type of fabric.

2 The nature and age of the stain.

3 The effect of the stain removal agent upon the colour, structure and general appearance of the trim material.

It is essential that stains be removed from the trim material as soon as possible after they have been made. If they are allowed to remain on the fabric for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

The use of Holden's spot and stain remover will assist in the above, refer page 7-6.

Cleaning P.V.C. coated fabrics

Vinyl (P.V.C.) coated fabrics are used for seating, headlinings and auxiliary trimming. The grades used vary according to their function. P.V.C. fabrics are generally made with fabric bases upon which synthetic resins are applied. Care of P.V.C. fabrics is a relatively simple but important matter. The surface should be wiped over with a dry cloth during the regular cleaning of the car.

Should dirt accumulate and become embedded in the material pattern the following procedure is recommended.

1 Using luke warm water and soap, or Holden's Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to advantage to remove stubborn stains or dirt embedded in the grain of the material.

2 Repeat using only a damp cloth and no soap.

3 Wipe dry with a soft cloth.

The above cleaning instructions also apply to the rubber floor mats.

Cleaning cloth trim

Where the seats in your car are upholstered with cloth, the following instructions should be observed. Most loose dirt and dust can be removed by a vacuum cleaner or a soft brush. DO NOT use a whisk broom or a coarse hair brush. If normal soiling should take place it is recommended that the fabric be sponged lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden's Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

Cleaning carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden's Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner. After cleaning the carpet, use an air hose to fluff the carpet pile, then dry the carpet. After the carpet is completely dried, use an air hose to again fluff the carpet pile.

Cleaning seat belts

Cleaning of seat belts can be carried out by using a mild non-abrasive soap and luke warm water. After washing be sure to thoroughly sponge the washing solution out of the belts.

CAUTION: Do not bleach or dye seat belts since this may severely weaken them.

Cleaning interior glass

The interior glass area of the car should be cleaned using Holden's Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demisting element.

Never use abrasive cleaners on any car glass, as they may cause scratches.

CAUTION: Care should be taken when moving the car after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

Underbody cleaning. The effects of salts and other corrosive materials from road surfaces can result in accelerated rusting and deterioration of underbody components such as brake and fuel lines, frame, underbody floor pan, exhaust system, brackets, park brake cables. These corrosive effects, however, can be reduced by periodic hosing of the underbody with plain water whenever the car is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody by inspected and washed at least once each year, preferably after a winter's exposure. Particular attention should be given to cleaning out underbody members where dirt and other foreign materials may have collected.

Regular washing

If the car is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois leathers, sponges or rags free from dirt or grit likely to scratch the paint finish. It is good practice to first hose the car to remove as much of the grit and grime as possible before swabbing the surface. Do not wash the car under bright sunlight on hot days, as this will result in a streaky, watermarked finish.

Holden's Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean, refer page 7-6.

Do not use hot water, strong soap or chemical detergents. Any cleaning agent used should be flushed promptly from the surface and not allowed to dry on the finish.

Washing paintwork

The enamel finish on your car is superior to ordinary enamels and will stay bright and new looking for years with little or no polishing, provided it is given a reasonable amount of regular washing to keep off road grime.

Washing not only removes dirt and road grime that settles on the car, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, excretion from insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint finish of the car. These should be removed without delay, using an effective removal agent.

Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish as soon as possible the area from which the foreign matter has been removed.

WARNINGS

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to acrylic finishes. When purchasing a cleaner, polish or wax ensure that it can be safely used on an acrylic finish.
- If petrol is spilt on the paint finish when refilling, owners are advised to ensure that it is flushed off with clean water immediately. The reason is that petrols have a tendency to stain or soften new paint finish during the weathering out period, particularly when the car is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

Insect spots

Insect spots on the paint finished parts of the car can be easily washed off by using a solution containing 1 litre of water in which approximately 110 grams of baking soda (Bicarbonate of Soda) has been dissolved. Flush the washed parts with clean water.

Polishing

Even though the enamel finish on your car is more durable than ordinary enamels, under certain conditions you may wish to polish your car to provide maximum protection against road dirt and industrial fall out etc. Also, the application of a polish may to required to remove foreign matter which is not normally removed from cars by washing. Over a period of time, such foreign matter may build up on the paint surface to the detriment of its overall appearance.

DO NOT ATTEMPT TO APPLY A POLISH WITHOUT FIRST WASHING TO REMOVE EXISTING LOOSE GRIT, SURFACE DIRT, DUST OR GREASE ETC.

Painted plastic bumpers or body side mouldings may be cleaned and polished according to the instructions given above for the paintwork.

Paintwork inspection

Regular inspection of the car should be made for scratch marks, cracks or damaged areas, all of which could develop rust and thus affect paint finish. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist, or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect. The paint finish of the car gives a very high degree of protection against the weather, but is should be realised that wear and deterioration occur when the car is exposed to elements for prolonged period. The car therefore should be garaged whenever possible.

Glass cleaning - general

Special care should be taken to avoid scratching the glass when it is being cleaned. If it is cleaned at the same time as the rest of the car, there is a possibility that particles of grit will cause fine scratches. Flush off any heavy mud deposits on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden's Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

Windscreen

It is important, at all times, that the windscreen be kept clean so that the wiper blades may be as effective as possible in wiping the surface. Old wiper blades can cause windscreen scratching and therefore should be inspected regularly and replaced as necessary.

Abrasive materials must never be used to clean glass as they can cause scratches. A scratched windscreen will impair vision, particularly at night. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft lint free cloth or chamois.

It is recommended that Holden's Optikleen be added to the windscreen washer reservoir to assist the wipers in keeping the windscreen clean whilst driving.

Wiper blades

Much of the oil and road scum thrown up onto the windscreen causing smearing when the wipers are switched on transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass re-appears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and cleaning with Holden's Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM.

If in dry conditions, the wiper blades are used to clean dust and dirt from the windscreen always use the washer system to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades be frozen to the windscreen, they must be lifted off and freed by hand before switching on the wipers.

Tyres

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease can, and should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

New tyre look can be restored using Holden's Tyre and Bumper Shine, refer page 7-7.

HOLDEN'S PART NO.	SIZE	DESCRIPTION	USAGE
M37432	390 x 370 mm	Synthetic Chamois	Absorbs water and cleans paint glass and chrome surfaces.
M39828	500 ml Polish	Polymer Glaze finish.	Seals in a deep, lustrous, glazed Long life protection from oxidation, salt, and weather damage.
M39829	500 ml	Easy Gloss Polish	Contains silicones and hard working waxes for extra shine.
M39846	250 g	Deep Shine Glaze Polish	Contains Carnuba wax for a mirror finish.
M39833	250 g	Cutting Polish	Removes oxidised paint and built-up road grime, leaving as smooth surface to apply polish
M39832	175 ml	Chrome Polish	Removes surface rust and brightens and cleans all chromed surfaces.
M39830	500 ml	Wash on Shine	Contains polymer protectants to shine. Adds a protective film to paintwork.
M39831	500 ml	Foaming Car Wash	Leaves a no-streak finish.
M38696	400g	Velour Fabric and Vinyl Cleaner	Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets.
M40383	350 g	Tyre and Bumper Shine	Restores tyres and bumpers to as new finish.
M38695	250 ml	Glass Cleaner	Cleans all glass surfaces.
M39826	500 ml	Optikleen	Windscreen washer solvent.
M39168	125 ml	Car Freshener/ Deodorant	Removes smells, tobacco and other odors.

HOLDEN'S PART NO.	SIZE	DESCRIPTION	USAGE
M39760	350 g	Spray Grease	Lithium based grease in a can. Sprays liquid. Ideal for springs cables, linkages etc.
M39169	250 ml	Spot and Stain Remover	Removes spots and stains from carpet, velour, vinyl and most fabrics.
M40276	750 ml	Wheel Cleaner	Cleaning of all wheels, including alloy wheels.
1050002	470 ml	Top Engine Cleaner	Purges gum, carbon, varnish and sludge from internal parts.
M39288	1 litre	Radiator coolant/ inhibitor	Inhibitor providing year-round protection against corrosion and rust. Anti-freeze lowers the freezing point for the cold winter months. Coolant increases the boiling point of the cooling system for the summer months.
M40307	5 litres	"	
M39290	20 litres	"	
M39304	500 ml	Radiator Cleaner	Use prior to or replacing coolant/ inhibitor.
M37223	400 g	Degreaser	Removes oil and grease from engines.
M40235	300 g	AC-4	- dispenses moisture on wet motors and electrical parts. - Penetrates and loosens rusted or seized parts. - Lubricates and protects against corrosion. - Inhibits corrosion on battery terminals.
M33028	27g	Solid Oil	Lubricant for locking mechanisms, door hinges, sticking windows.

Chapter 8

Specifications & Emissions

Page

8-1 Engine specifications

8-2 Transaxle specifications

8-2 Final drive ratio

8-2 Wheel bearing specifications

8-2 Brake fluid specification

8-2 Lubrication of various lock, hinges, catches, linkages and pivots

8-3 Tyre/wheel specifications

8-3 Vehicle dimensions and weights

8-4 Emission control

8-5 Identification plates and numbers

Engine Description	1.3 litre, 4 cylinder, high compression with overhead camshaft
Piston Displacement	1,298 cc
Firing Order	1, 3, 4, 2
Compression Ratio	9.5:1
Bore	74 mm
Stroke	75.5 mm
Power	49.5 kW @ 6,000 r.p.m.
Torque	101 Nm @ 3,500 r.p.m.
Oil Specification	For normal operating conditions, use SF or SG grade engine oil 20W/40. For prolonged use in snow areas, the use of SF grade engine oil 15 W/40 is recommended.
Refill Oil Capacity	3.3 litres, including filter
Coolant	**50% water and 50% long life coolant conforming to Specification Holden's Specification no. HN 2043; part no M40236 (1 litre) or M40307 (5 Litres).**
Coolant Capacity	4.7 litres approximately
Spark Plug	NGK BP6ES or NIPPON DENSO W20EP-U
Surge/radiator Cap	90 kPa
Idle Mixture Settings,	Idle mixture and basic throttle settings have been preset and sealed. Removal of mixture screw caps and alterations to other than specified idle CO settings may violate State law

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may be detrimental to the operation of your car.

NOTE: Engine tune-up data, including spark plug gap and idle speed will be found on the Emission Label, on the underside of the bonnet, refer page 8-5.

		Manual	Automatic
Transaxle gear ratios	1st	3.416 : 1	2.810 : 1
	2nd	1.894 : 1	1.549 : 1
	3rd	1.280 : 1	1.000 : 1
	4th	0.914 : 1	-
	5th	0.757 : 1	-
	Rev	3.272 : 1	2.296 : 1
Transaxle oil capacity		2.4 litres	4.9 litres
Transaxle fluid specification		API GL-4, SAE 80W gear oil	Dexron *11D
Final drive ratio		3.523 : 1	3.684 : 1

Front wheel bearings	Grease meeting Holden's specification no. HN 1227 (high melting point)
Brake fluid	DOT3 or SAE J1703 brake fluid
Clutch linkage pivot points Gear shift control lever and shaft Rear wheel bearings	Grease meeting Holden's specification no. 1327
Door hinges Bonnet latch assembly	Engine oil
Key lock cylinders	Powdered graphite, apply through key aperture

* Dexron is a registered Trademark of General Motors Corporation

Tyre specifications table

NOTE: Always refer to the placard on the right, door lock pillar

WHEEL	TYRE SIZE	Recommended cold inflation pressure kPa (P.S.I.)	
		FRONT	REAR
4.5J x 13	P155/70R 13	200 (29)	200 (29)

Wheel nut torque

Recommended wheel nut torque is 50-70 Nm (36-50 ft.lbs.)

Dimensions

		4 DOOR	2 DOOR
LENGTH		3,845 mm	3,745 mm
WIDTH		1,590 mm	1,590 mm (8MS77) 1,575 mm (8MT77)
HEIGHT		1,380 mm	1,350 mm
WHEEL BASE		2,365 mm	2,265 mm
GROUND CLEARANCE		170 mm	170 mm
TRACK	Front	1,365 mm	1,365 mm
	Rear	1,340 mm	1,340 mm

Weights

		4 DOOR	2 DOOR
Curb weight	Manual	795 kg	765 kg
	Auto	815 kg	N/A
Max. allowable loaded weight	Total	1250 kg	1250 kg

Your car is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, produce photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air. The three major emission control systems fitted to your car are:

1. **Evaporative Emission Control System**

   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.

2. **Crankcase Emission Control System**

   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.

3. **Exhaust Emission Control System**

   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components such as carburetor, spark advance control, cooling system thermostat, catalytic converter, pulse air control system, etc.

For detailed information on the operation, servicing and repair procedures for these systems, refer to the appropriate service manual for your car. Also refer to the emission label on the underside of the bonnet.

Owner responsibility

Your car's emission control systems have been designed to meet the requirements of Australian Design Rules and State Regulations.

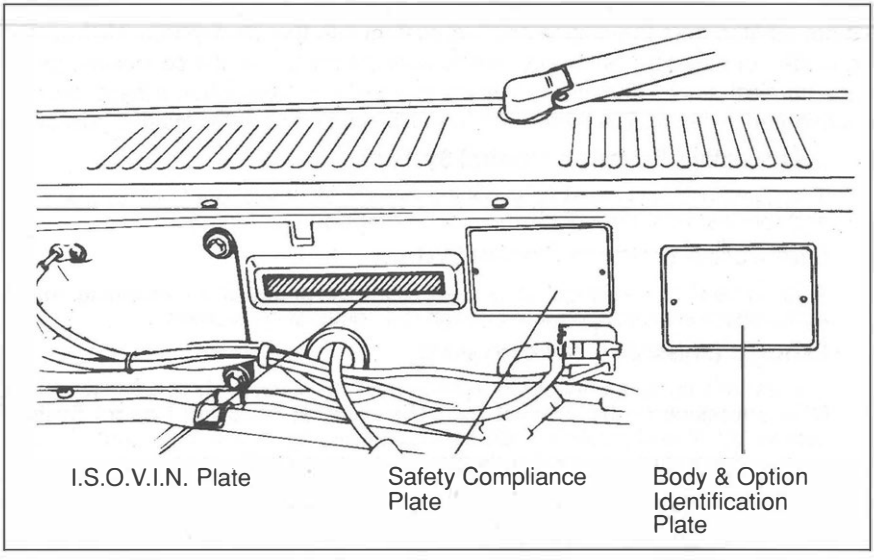
To ensure that these components achieve their purpose of controlling the emission of pollutants to the atmosphere, the engine or exhaust system of your car must NOT be modified in any way. Any departure from the Manufacturer's design specifications may increase the emissions or otherwise defeat the intent of the regulations.

ANY PERSON WHO REMOVES, MODIFIES OR OTHERWISE RENDERS INEFFECTIVE ANY EMISSION CONTROL COMPONENTS FITTED TO A VEHICLE WILL BE CONTRAVENING THE RELEVANT REGULATIONS. ANY PERSON WHO OWNS AND OR OPERATES SUCH A VEHICLE COULD ALSO BE GUILTY OF AN OFFENCE UNDER THE REGULATIONS.

Maintenance requirements

To ensure continuing compliance with the regulations it will be necessary for you to maintain your car's emission control system in accordance with the instructions given in the Holden's Maintenance Plan (refer Chapter 9) and the relevant Service Manuals.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.



Body and Option Identification Plate

This plate shows model identification, Vehicle Identification Number, trim colour combination, engine, and built date.

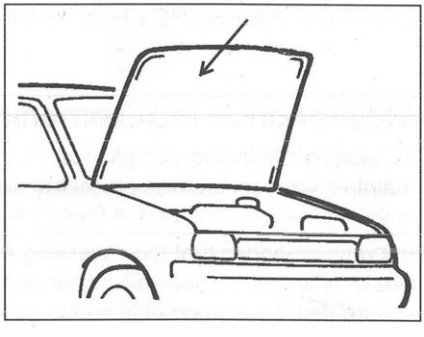
The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

Safety Compliance Plate

Shown on the plate are the vehicle Make, Model Series, Month and Year of Manufacture, Vehicle Identification Number, approved seating capacity and Approval Number.

Emission Label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions, refer previous page.



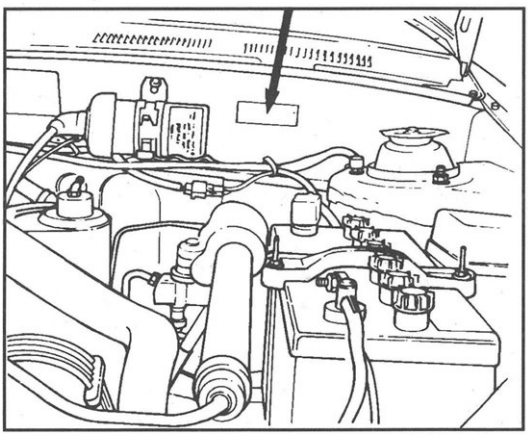
I.S.O.V.I.N. PLATE

JSA E 8M G68 00 100001

- 100001 — Sequential Production Serial Number
- 00 — This position will always be filled with "00"
- G68 — Body style code: G68=4 door; S77=GS 2 door; T77= base 2door
- 8M — Model Code
- E — Engine type: E=petrol
- JSA — World Manufacturer Identifier

HOLDEN IDENTIFICATION PLATE

The Holden Identification Plate is located on the passenger side of the engine compartment, as shown. This 12 character number should be used when identifing the car, rather than the I.S.O.V.I.N. plate.



Engine Number

Every engine has its own individual identification number stamped onto a flat surface on the engine block, near the exhaust manifold at the front of the engine.

Chapter 9

Service/Maintenance Schedule

Page

9-1 When to Have the Service Carried out
9-2 Extreme Operating Conditions
9-3 Maintenance Schedule
9-5 Suggested Times for Each Service
9-6 Beginning of Maintenance Coupons
9-32 Notice of Name/Address/Ownership Change

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your car. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your car cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

#	1,000 km	- 1 month
#	10,000 km	- 6 month
#	20,000 km	- 12 month
#	30,000 km	- 18 month
#	40,000 km	- 24 month
#	50,000 km	- 30 month
#	60,000 km	- 36 month
#	70,000 km	- 42 month
#	80,000 km	- 48 month
#	90,000 km	- 54 month
#	100,000 km	- 60 month
#	110,000 km	- 66 month6
#	120,000 km	- 72 month

The one month - 1,000 km service will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of introduction from the Selling Dealer. Your Dealer will supply the necessary letter of introduction upon request.

The services shown in this schedule between 10,000 and 120,000 are to be performed after 120,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transaxle, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carries out by an Authorised Holden Dealer or service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 5-1, so that you are conversant with your entitlements.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important as it will not only assist in the determination of Warranty Claims, but enhance the value of the vehicle whenever resale is contemplated.

If your car operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your car operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 kilometres under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change engine oil and oil filter every 5,000 km or 3 months			C	D	E
Inspect air cleaner element every 2,500 km			C		
Inspect fuel tank, cap and lines every 20,000 km or 12 months				D	
Inspect brake drums and shoes every 10,000 km or 6 months	A	B	C		E
Inspect brake hoses and pipes every 10,000 km or 6 months	A	B	D		E
Replace automatic transaxle fluid every 20,000 km or 12 months	A	B			E

A = Repeated short trips

B = Driving on rough and/or muddy roads

C= Driving on dusty roads

D = Driving in extremely cold weather and/or salted roads

E = Repeated short trips in extremely cold weather

"R" : Replace or change
"I" : Inspect and correct or replace if necessary

Use odometer reading or months, whichever occurs first	X 1000 km	1	10	20	30	40	50	60	70	80	90	100	110	120
	or months		6	12	18	24	30	36	42	48	54	60	66	72
Engine														
Water pump belt		I		I		I		I		R		I		I
Valve lash				I		I		I		I		I		I
Engine oil and engine oil filter			R	R	R	R	R	R	R	R	R	R	R	R
Cooling system hoses & connections		I		I		I		I		I		I		I
Engine coolant						R				R				R
Exhaust system		I		I		I		I		I		I		I
Wiring harness and connections						I				I				I
Ignition														
Spark plugs				I		R		I		R		I		R
Distributor cap & rotor						I				I				I
High tension leads						I				R				I
Fuel														
Carburettor choke system						I				I				I
Air cleaner element. Clean or replace as necessary.			I	I	I	I	I	I	I	I	I	I	I	I
Engine idle speed & mixture		I	I	I		I		I		I		I		I
Fuel tank, cap and lines		I				I				I				I
Fuel filter						R				R				R

Use odometer reading or months, whichever occurs first	X 1000 km	1	10	20	30	40	50	60	70	80	90	100	110	120
	or months		6	12	18	24	30	36	42	48	54	60	66	72
Emission control														
PCV valve						I				I				I
Charcoal canister										I				
Fuel cut system						I				I				I
Thermostatically controlled air cleaner						I				I				I
Brakes														
Brake disc and pads			I	I	I	I	I	I	I	I	I	I	I	I
Brake drums and shoes			I		I		I		I		I		I	
Brake hoses and pipes			I		I		I		I		I		I	
Brake fluid				I		I		I		R		I		I
Brake lever and cable			I		I		I		I		I		I	
Brake pedal				I		I		I		I		I		I
Chassis & body														
Clutch pedal		I	I	I	I	I	I	I	I	I	I	I	I	I
Tyres/ wheels		I	I	I	I	I	I	I	I	I	I	I	I	I
Suspension system		I	I	I	I	I	I	I	I	I	I	I	I	I
Drive axle boots			I	I	I	I	I	I	I	I	I	I	I	I
Steering system		I	I	I	I	I	I	I	I	I	I	I	I	I
Manual transaxle oil		I	I	R	I	R	I	R	I	R	I	R	I	R
Auto. trans.	Fluid level		I	I	I	I	I	I	I	I	I		I	I
	Fluid change											R		
	Fluid hose							R						R
Door hinges & Gear shift control lever/shaft			I	I	I	I	I	I	I	I	I	I	I	I

Use odometer reading or months, whichever occurs first	X 1000 km	1	10	20	30	40	50	60	70	80	90	100	110	120
	or months		6	12	18	24	30	36	42	48	54	60	66	72

Road test

Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.		I	I	I	I	I	I	I	I	I	I	I	I	I
Suggested labour time - hours		-	0.8	1.3	0.7	1.6	0.7	1.3	0.7	2.2	0.7	1.3	0.7	1.6
Add for auto. transaxle								0.2						0.2

The owner will be charged for all lubricants and materials used plus labour at the times recommended above.

The repair or replacement of any part found faulty during a service check and not covered by Holden's Warranty will be added to the charges.

Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work can be authorised.

1,000 km Inspection and Adjustment

This coupon should not be removed until the car is presented for Service.

Owner's Name Mr. Mrs. Miss. Ms. .....

Address .....

Town & State ..... Postcode .....

Reg. No. ..... Eng. No. .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

This car has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's Signature .....

This Inspection & Adjustment will be carried out without charge to the owner except for any lubricants used.

1,000 km Inspection & Adjustment

This vehicle has been thoroughly checked in accordance with the 1,000 km inspection and adjustment.

Dealer .....

Service Manager's Signature .....

Date ..... Odometer Reading .....

Engine

	Inspect water pump belt
	Inspect cooling system hoses & connections
	Inspect exhaust system

Fuel

	Inspect engine idle speed & mixture
	Inspect fuel tank, cap and lines

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect steering system
	Inspect manual transaxle oil

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

10,000 km or 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take

0.8 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

.....

.....

.....

Signature ..... Date.....

Engine

	Replace engine oil and engine oil filter

Fuel

	Air cleaner element. Clean or replace as necessary.
	Inspect engine idle speed and mixture

Brakes

	Inspect brake disc and pads
	Inspect brake drums and shoes
	Inspect brake hoses and pipes
	Inspect brake lever and cable

10,000 km or 6 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed .....

Additional Services Performed: .....

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Inspect manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

20,000 km or 12 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take 1.3 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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Signature ..... Date.....

Engine

	Inspect water pump belt
	Inspect valve lash
	Replace engine oil and engine oil filter
	Inspect cooling system hoses & connections
	Inspect exhaust system

Ignition

	Inspect spark plugs

Fuel

	Air cleaner element. Clean or replace as necessary.
	Inspect engine idle speed & mixture

20,000 km or 12 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed .....

Additional Services Performed:.....

Brakes

	Inspect brake disc and pads
	Inspect brake fluid
	Inspect brake pedal

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Replace manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

30,000 km or 18 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take 0.7 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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.....

.....

Signature ..... Date.....

Engine

	Replace engine oil and engine oil filter

Fuel

	Air cleaner element. Clean or replace as necessary.

Brakes

	Inspect brake disc and pads
	Inspect brake drums and shoes
	Inspect brake hoses and pipes
	Inspect brake lever and cable

30,000 km or 18 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services Performed: .....

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Inspect manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

40,000 km or 24 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take
1.6 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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Signature ..... Date.....

Engine

	Inspect water pump belt
	Inspect valve lash
	Replace engine oil and engine oil filter
	Inspect cooling system hoses & connections
	Replace engine coolant
	Inspect exhaust system
	Inspect wiring harness and connections

Ignition

	Replace spark plugs
	Inspect distributor cap & rotor
	Inspect high tension leads

40,000 km or 24 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed .....

Additional Services Performed:.....

Fuel

	Inspect carburettor choke system
	Air cleaner element. Clean or replace as necessary.
	Inspect engine idle speed & mixture
	Inspect fuel tank cap and lines
	Replace fuel filter

Emission control

	Inspect PCV valve
	Inspect fuel cut system
	Inspect thermostatically controlled air cleaner

Brakes

	Inspect brake disc and pads
	Inspect brake fluid
	Inspect brake pedal

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Replace manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions

50,000 or 30 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take 0.7 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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Signature ..... Date.....

50,000 km or 30 month SERVICE VALIDATION

Servicing Dealer ..... Additional Services Performed: .....

Date of Service ....

Odometer..... .....

Signed..... .....

Engine

	Replace engine oil and engine oil filter

Fuel

	Air cleaner element. Clean or replace as necessary.

Brakes

	Inspect brake disc and pads
	Inspect brake drums and shoes
	Inspect brake hoses and pipes
	Inspect brake lever and cable

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Inspect manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

60,000 km or 36 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take

1.3 hours approx. (add 0.2 for automatic transmission)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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.....

Signature ..... Date.....

60,000 km or 36 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed.....

Additional Services Performed: .....

Engine

	Inspect water pump belt
	Inspect valve lash
	Replace engine oil and engine oil filter
	Inspect cooling system hoses & connections
	Inspect exhaust system

Ignition

	Inspect spark plugs

Fuel

	Air cleaner element. Clean or replace as necessary.
	Inspect engine idle speed & mixture

Brakes

	Inspect brake disc and pads
	Inspect brake fluid
	Inspect brake pedal

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Replace manual transaxle oil
	Inspect automatic transmission fluid level
	Replace automatic transmission fluid hose
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxie operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

70,000 km or 42 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take 0.7 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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.....

Signature ..... Date.....

70,000 km or 42 month SERVICE VALIDATION

Servicing Dealer..... Additional Services Performed:.....

Date of Service .....

Odometer .....

Signed.....

Engine

	Replace engine oil and engine oil filter

Fuel

	Air cleaner element. Clean or replace as necessary.

Brakes

	Inspect brake disc and pads
	Inspect brake drums and shoes
	Inspect brake hoses and pipes
	Inspect brake lever and cable

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Inspect manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

80,000 km or 48 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take 2.2 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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.....

Signature ..... Date.....

Engine

	Replace water pump belt
	Inspect valve lash
	Replace engine oil and engine oil filter
	Inspect cooling system hoses & connections
	Replace engine coolant
	Inspect exhaust system
	Inspect wiring harness and connections

Ignition

	Replace spark plugs
	Inspect distributor cap & rotor
	Replace high tension leads

80,000 km or 48 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed.....

Additional Services Performed: .....

Fuel

	Inspect carburettor choke system
	Air cleaner element. Clean or replace as necessary.
	Inspect engine idle speed & mixture
	Inspect fuel tank cap and lines
	Replace fuel filter

Emission control

	Inspect PCV valve
	Inspect charcoal canister
	Inspect fuel cut system
	Inspect thermostatically controlled air cleaner

Brakes

	Inspect brake disc and pads
	Replace brake fluid
	Inspect brake pedal

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Replace manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

90,000 km or 54 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take

0.7 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

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.....

.....

Signature ..... Date.....

90,000 km or 54 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed .....

Additional Services Performed: .....

Engine

	Replace engine oil and engine oil filter

Fuel

	Air cleaner element. Clean or replace as necessary.

Brakes

	Inspect brake disc and pads
	Inspect brake drums and shoes
	Inspect brake hoses and pipes
	Inspect brake lever and cable

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Inspect manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

100,000 km or 60 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take
1.3 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

.....

.....

.....

Signature ..... Date.....

Engine

	Inspect water pump belt
	Inspect valve lash
	Replace engine oil and engine oil filter
	Inspect cooling system hoses & connections
	Inspect exhaust system

Ignition

	Inspect spark plugs

Fuel

	Air cleaner element. Clean or replace as necessary.
	Inspect engine idle speed & mixture

100,000 km or 60 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed.....

Additional Services Performed:.....

Brakes

	Inspect brake disc and pads
	Inspect brake fluid
	Inspect brake pedal

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Replace manual transaxle oil
	Change automatic transmission fluid
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

110,000 km or 66 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take
0.7 hours, approximately

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

.....

.....

.....

Signature ..... Date.....

Engine

	Replace engine oil and engine oil filter

Fuel

	Air cleaner element. Clean or replace as necessary.

Brakes

	Inspect brake disc and pads
	Inspect brake drums and shoes
	Inspect brake hoses and pipes
	Inspect brake lever and cable

110,000 km or 66 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed.....

Additional Services Performed: .....

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Inspect manual transaxle oil
	Inspect automatic transmission fluid level
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

120,000 km or 72 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take 1.6 hours, approx. (add 0.2 for automatic transmission)

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional servies performed as requested.

Additional Services Requested: .....

.....

.....

.....

Signature ..... Date.....

Engine

	Inspect water pump belt
	Inspect valve lash
	Replace engine oil and engine oil filter
	Inspect cooling system hoses & connections
	Replace engine coolant
	Inspect exhaust system
	Inspect wiring harness and connections

Ignition

	Replace spark plugs
	Inspect distributor cap & rotor
	Inspect high tension leads

120,000 km or 72 month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer.....

Signed .....

Additional Services Performed:.....

Fuel

	Inspect carburettor choke system
	Air cleaner element. Clean or replace as necessary.
	Inspect engine idle speed & mixture
	Inspect fuel tank cap and lines
	Replace fuel filter

Emission control

	Inspect PCV valve
	Inspect fuel cut system
	Inspect thermostatically controlled air cleaner

Brakes

	Inspect brake disc and pads
	Inspect brake fluid
	Inspect brake pedal

Chassis & body

	Inspect clutch pedal
	Inspect tyres/ wheels
	Inspect suspension system
	Inspect drive axle boot
	Inspect steering system
	Replace manual transaxle oil
	Inspect automatic transmission fluid level
	Replace automatic transmission fluid hose
	Inspect door hinges & gear shift control lever/shaft

Road test

	Check car on road for braking, steering, engine response and transaxle operation. Check park pawl operation (auto), check neutral start switch (auto). Check and report any abnormal conditions.

To ensure continued interest in your car, Holden's request that owner's who change their name or address, or subsequent owners who purchase the car, fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE

❑ NAME/ADDRESS CHANGE

❑ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss Ms .....

Address .....

Town .....

State .....

Registration No. .....

Vehicle Identification Number (VIN) .....
(Refer Chapter 8 for location of V.I.N.)

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE

❑ NAME/ADDRESS CHANGE

❑ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss Ms .....

Address .....

Town .....

State .....

Registration No. .....

Vehicle Identification Number (VIN) .....
(Refer Chapter 8 for location of V.I.N.)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

Place in an envelope and mail to:

The Manager - Warranty Administration
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General Motors-Holden's Automotive Limited
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❑ NAME/ADDRESS CHANGE

❑ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss Ms .....

Address .....

Town .....

State .....

Registration No. .....

Vehicle Identification Number (VIN) .....
(Refer Chapter 8 for location of V.I.N.)

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE

❑ NAME/ADDRESS CHANGE

❑ SUBSEQUENT OWNER

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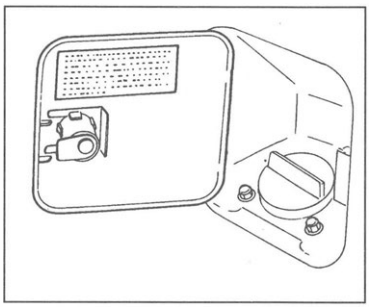
FUEL

CAUTION: Petrol is extremely flammable and highly explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the car when refuelling. If petrol fumes are noticed while driving, the cause should be determined and corrected, without delay.



The fuel filler is on the left side of the car and has both a lockable, hinged lid and a screw-on cap. After opening the lid, remove the cap by turning anti-clockwise. When replacing cap, turn until a *clicking* sound is heard - which indicates the cap is secure.

To reduce the exhaust pollutants in the atmosphere, your car has been designed to operate on a good quality, clean UNLEADED FUEL of at least 91 octane rating (Research Octane Number), as indicated by the label on the lid.

The use of any other fuel will seriously damage the fuel system of your car (particularly the catalytic converter) and may void your Warranty.

To ensure that the correct fuel is used, your Barina has been fitted with a fuel filler nozzle restrictor. This allows the thinner, unleaded fuel filler nozzle to open the hinged flap, so that fuel may be added to the fuel tank. The leaded fuel filler nozzle is wider and therefore cannot open the flap.

TANK CAPACITY:- 40 litres.

Overfilling of the fuel tank can affect the evaporative Emission Control System.

To avoid this, the following recommendations are made:

1. Fuel tanks should always be filled at the intermediate or fast fill rate. After initial shut-off (or vent blow-back) no further fuel should be added. This retains the tank's ability to accommodate fuel expansion.

2. It is permissible to "trickle fill" fuel tanks where cars are to be driven for a distance of at least 50 kilometres shortly after the tank is filled. However, this is not recommended on hot days (over 30° C).

Note that the use of unleaded petrol results in black tail pipe deposits rather than the grey colour with which most people are familiar. The black colour does not, therefore, indicate a state of poor engine tune.

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